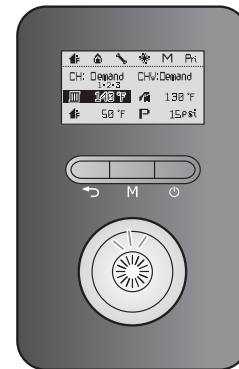


- Certified design according to **ANSI Z21.13 - CSA 4.9-2017** standards for indoor residential applications
- Gas Input Ranges
NFB-175 - 175,000 to 17,500 BTU/h
NFB-199 - 199,900 to 19,900 BTU/h
- **Turndown Ratio (TDR)** of up to 10:1
- **Patented Stainless Steel Fire Tube Heat Exchanger** designed for low pressure loss and super-efficient operation
- 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, 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 8 units** with the use of the Common Vent Backflow Damper Collar Kit #30014367A
- 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
- **External System Supply & Return Sensors** (optional) - additional controls provide optimum system performance
- **AFUE Ratings**
NFB-175/199 - 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, SCAQMD** (Rule 1146.2 Type 1 - Complies with 14 ng/l or 20 ppm NOx @ 3% O2)
- **15-Year Heat Exchanger and 5-Year Parts Warranty (Residential)**
10-Year Heat Exchanger and 3-Year Parts Warranty (Commercial)**** (***) see Navien Limited Warranty)
- **Optional accessories** are available (*see below*)

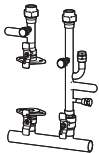
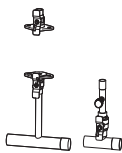
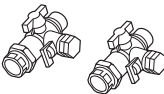
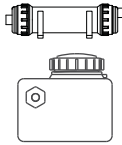

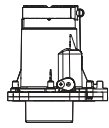
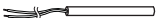


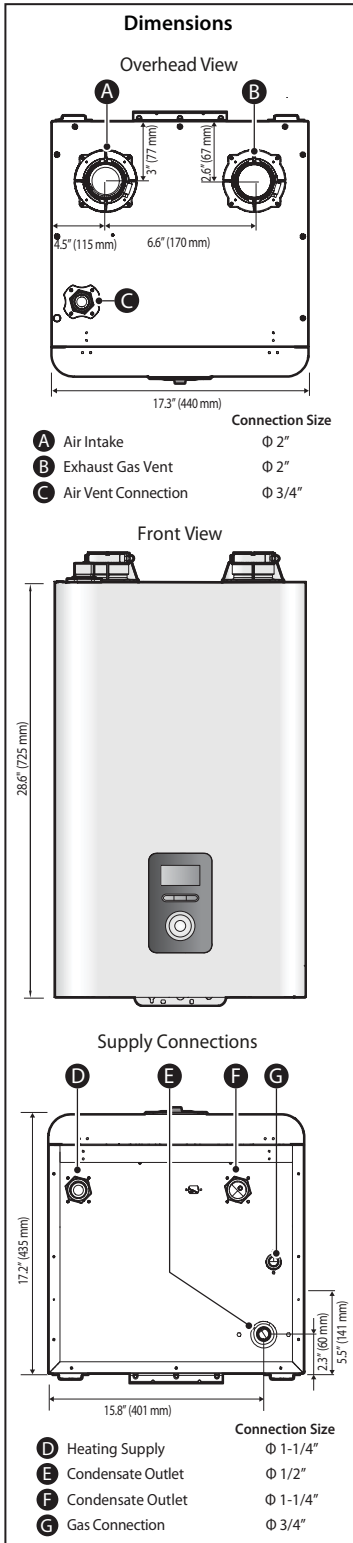
Sleek Design - Compatible with 2" PVC Vent



INCLUDED Illuminated Front Panel with Advanced Hydronic Operation



						
NFB Manifold Kit - Primary (GFFM-MSOZUS-002)	NFB Manifold Kit - Secondary (GFFM-SKTZUS-001)	Plumb Easy Valve Set (30010950A - 1" Standard)	Condensate Neutralizer (GXXX001322 - Single Unit) (GXXX001324 - Up to 6 Units) (GXXX001325 - Up to 16 Units)	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)	Common Vent Damper Kit (30014367A)	Universal Temperature Sensor (GXXX001769)



Navien Condensing 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					
NFB-175	17.5	175	161	140	95	12-80 psi	1 1/4 in NPT
NFB-199	19.9	199	183	159	95		

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-175	NFB-199
Dimensions	17.3 in (W) x 17.1 in (D) x 28.9 in (H)	
Weight	115 lb (52 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	-0.05 to -0.36 in WC	-0.05 to -0.58 in WC
Propane Gas Manifold Pressure	-0.10 to -0.66 in WC	-0.10 to -0.78 in WC
Gas Connection Size	3/4 in NPT	
Power Supply	Main Supply	120V AC, 60Hz
	Maximum Power Consumption	Less than 10 amperes
Materials	Casing	Cold-rolled carbon steel
	Heat Exchangers	Primary and Secondary: Stainless Steel
Venting	Exhaust	2 in or 3 in PVC, CPVC, approved polypropylene* 2 in or 3 in Special Gas Vent Type BH (Class III, A/B/C)
	Intake	2 in or 3 in PVC, CPVC, polypropylene 2 in or 3 in Special Gas Vent Type BH (Class III, A/B/C)
	Vent Clearance	0 in to combustibles
Safety Devices	Flame Rod, APS, Ignition Operation Detector 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