

Condensing Gas
Hot Water Boiler

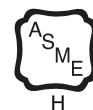
- Certified design according to the latest version of **ANSI Z21.13 - CSA 4.9** standards for indoor commercial boiler applications
- Gas Input Ranges
 - NFB700-500C** - 499,000 to 40,000 BTUh
 - NFB700-600C** - 599,000 to 40,000 BTUh
 - NFB700-800C** - 799,000 to 66,000 BTUh
 - NFB700-1000C** - 999,000 to 66,000 BTUh
- **Turndown Ratio (TDR)** up to 15:1
- **Patented Stainless Steel Fire Tube Heat Exchanger** designed for durability, low pressure loss, and super-efficient operation at pressures up to **160 psi**
- **NFB700-500/600C Venting - Compatible with 4" PVC vent up to 150 ft**
NFB700-800/1000C Venting - Compatible with 6" 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 required safety controls
- **High Voltage Terminal Strip** - dry 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 8 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 (#GXXX002990 for 4" Damper | #GXXX002991 for 6" Damper)
- Built-in **Wi-Fi Control** for monitoring and remote operation
- **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**
NFB700-500/600/800/1000C - 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)
- **10-Year Prorated Residential / 3-Year Commercial Heat Exchanger Warranty****** (**** see Navien Limited Warranty)
- **Optional accessories** are available (*see below*)



Floor Standing Design featuring Top and Bottom Water Connections - Compatible with 3" PVC Vent

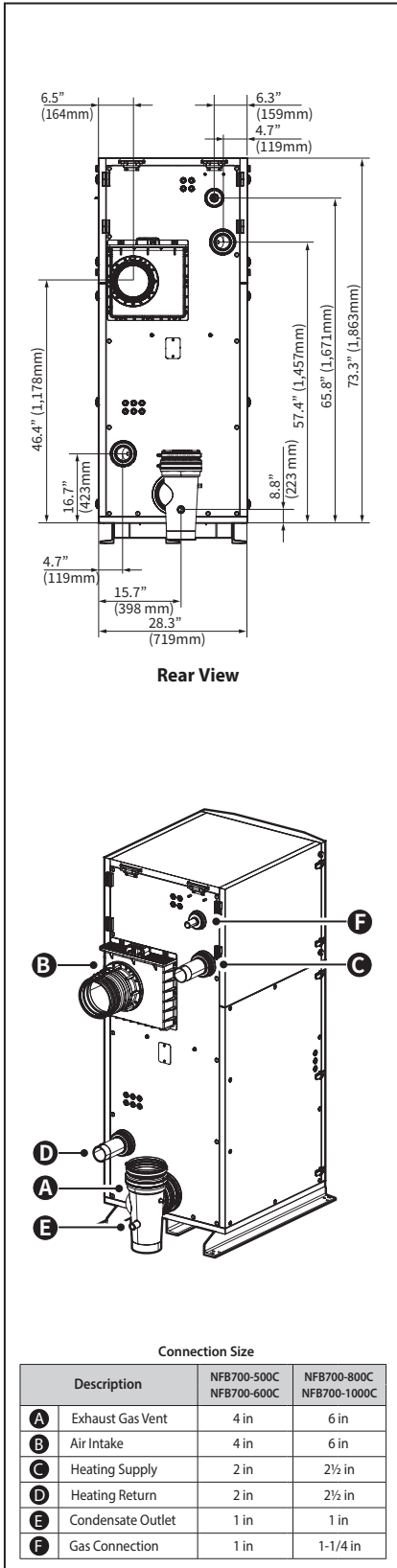


Large Color LCD Front Panel with Advanced Hydronic Operation and Temperature and Status Display

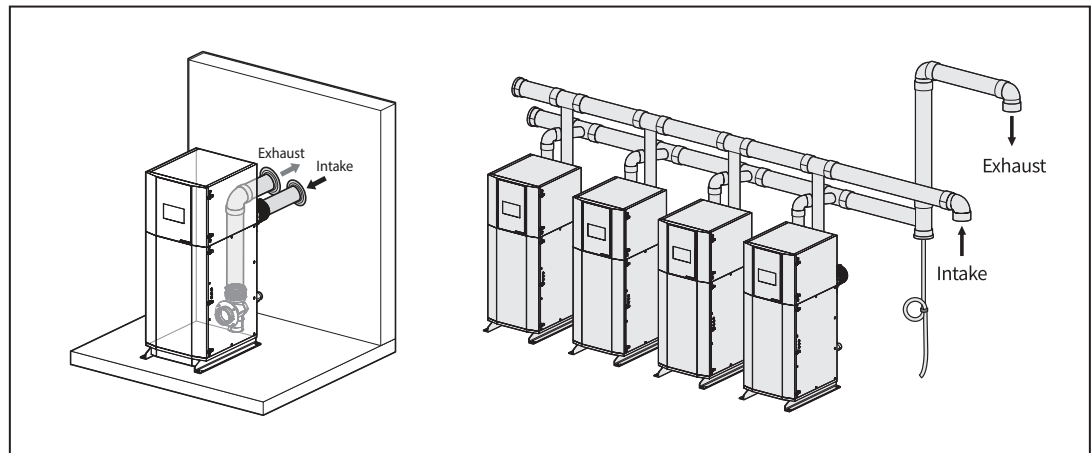


Pressure Relief Valve (GXXX001931 - 75 PSI) (GXXX001946 - 150 PSI)	BMS Gateway Module (GXXX001932 - Modbus/BACnet) (GXXX001933 - LonWorks)	Backflow Damper 4" GXXX002990 6" GXXX002991	Condensate Neutralizer 4" GXXX001324 (1 unit) 6" GXXX001325 (2+ units)	Zone Pump Controller (PFMZ-02P-001 - For 2 Zones) (PFMZ-03P-001 - For 3 Zones) (PFMZ-04P-001 - For 4 Zones) (PFMZ-06P-001 - For 6 Zones)	Universal Temperature Sensor (with clip) (GXXX001769)

Dimensions



Navien Commercial Condensing Boiler Space Heating Ratings								Other Specifications	
Model Number	Heating Input (MBH)		Gross Output (MBH)	Net AHRI Rating Water (MBH)	Thermal Efficiency (%)	Boiler Water Content (Gallons)	Water Pressure	Water Connection Size Min. Max. (Supply / Return)	
	Min.	Max.							
NFB700-500C	40	499	486	422	97.5	26.1	12-160 psi	2 in NPT	
NFB700-600C	40	599	584	507	97.5				
NFB700-800C	66	799	779	676	97.5	2.5 in NPT			
NFB700-1000C	66	999	974	846	97.5	36.5			
		NFB700-500C		NFB700-600C		NFB700-800C		NFB700-1000C	
Dimensions		28.3 in (W) x 31.0 in (D) x 72.1 in (H)				28.3 in (W) x 33.0 in (D) x 73.3 in (H)			
Boiler Weight		551 lb (250 kg)				728 lb (330 kg)			
Boiler Weight with Water		578 lb (262 kg)				765 lb (347 kg)			
Installation Type		Floor Standing							
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-13.0 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		1 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	4 in PVC, CPVC, approved polypropylene approved stainless steel 4 in Special Gas Vent Type BH (Class III, A/B/C)				6 in PVC, CPVC, approved polypropylene approved stainless steel 6 in Special Gas Vent Type BH (Class III, A/B/C)			
	Intake	4 in PVC, CPVC, polypropylene, stainless steel 4 in Special Gas Vent Type BH (Class III, A/B/C)				6 in PVC, CPVC, polypropylene, stainless steel 6 in Special Gas Vent Type BH (Class III, A/B/C)			
Safety Devices		Flame Rod, APS, Ignition Operation Detector, Water Temperature High Limit Sensor, Exhaust Temperature High Limit Sensor, LWCO (Low Water Cut Off), High Gas Pressure Switch, Low Gas Pressure Switch							



*Navien reserves the right to change specifications at any time without prior notice