



# QuickFacts

## NFC-H Series Condensing Fire Tube Combi-boilers

### Ratings & Specifications

	Model	
	NFC-250/175H	NFC-250/200H
	<b>Product Approvals</b>	
CSA	Yes	Yes
SCAQMD 1146.2 (NOx, <20 ppm)	Yes	Yes
Low lead (<0.25%, DHW only)	Yes	Yes
ASME	Yes "H" stamp	Yes "H" stamp
AHRI Number	206368824	206368825
Energy Star	Yes	Yes
	<b>Space Heating Ratings</b>	
AFUE, %	95.0	95.0
Heating Capacity, BTU/H	161,000	183,000

### Applications

Air Handler	Closed Loop Hydronic Heating Systems
For NFC technical drawings of specific installations and requirements please visit <a href="http://Navieninc.com">Navieninc.com</a>	

### Product Features

**PATENTED STAINLESS STEEL HX FOR HEATING**

**SEPARATE HIGHER FLOW DHW HX**

**ADVANCED USER INTERFACE**

**TDR UP TO 15:1 HTG DHW**

**NG OR LP FIELD GAS CONVERTIBLE**

**3 ZONES VALVES or PUMPS**

**2" VENT UP TO 65 FEET & 3" VENT UP TO 150 FEET**

**1/2" GAS CAPABILITY UP TO 24 FT**

**AFUE 95.0%**

### Heating Input Ranges

Model	Heating (BTU/H)	DHW (BTU/H)
NFC-250/175H	13,300-175,000	13,300-210,000
NFC-250/200H	13,300-199,900	13,300-210,000

### Temperature Range Settings

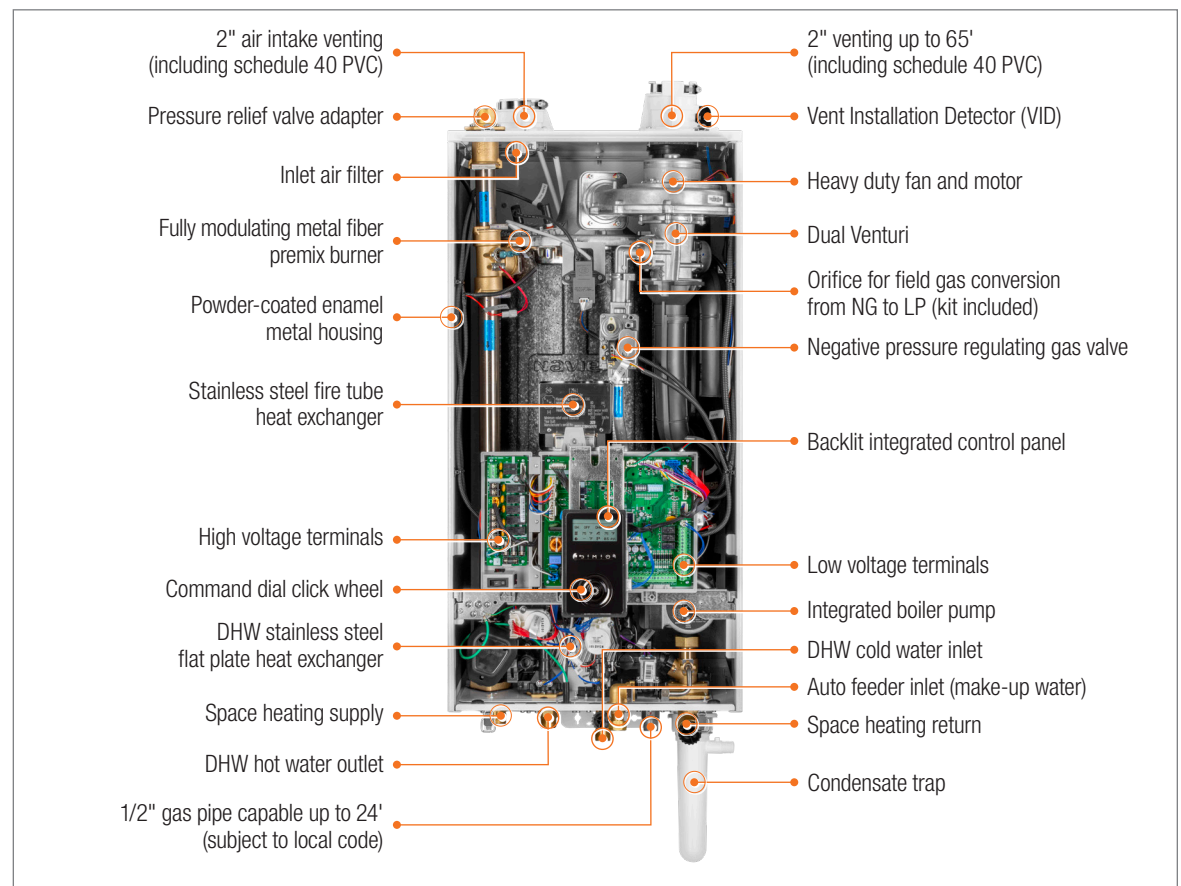
Item	Temperature Range °F (°C)	Remarks
Space heating	Supply 77-185 (25-85)	Actual supply and return temperatures vary depending on the selected outdoor reset curve.
	Return 68-158 (20-70)	
DHW	86-140 (30-60)	

### Warranty

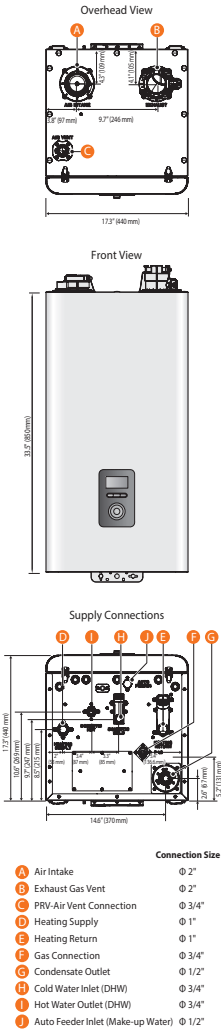
Type	Residential*	Commercial
Heat exchanger	10 years	5 years
Parts*	5 years	3 years
Labor	1 year	1 year

\*Applies to single family residential locations.  
For complete details please refer to the full warranty at [Navieninc.com](http://Navieninc.com).

### NFC-H: The Inside Story



## Dimensions



## Ratings & Specifications

Model Number <sup>1</sup>	Navien Combination Condensing Boiler Space Heating Ratings				AFUE <sup>2</sup> %	Other Space Heating Specifications		
	Heating Input (BTU/H)		Heating Capacity <sup>2</sup> (BTU/H)	Net AHRI Rating Water <sup>3</sup> (BTU/H)		Water Pressure	Water Connection Size (Supply, Return)	Water Volume
	Min	Max						
NFC-250/175H	13,300	175,000	161,000	140,000	95.0	12–80 psi	1" NPT	4.5 gallons
NFC-250/200H	13,300	199,900	183,000	159,000				

<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.

Navien Combination Condensing Boiler Domestic Hot Water Ratings			Other Domestic Hot Water Specifications				
Model Number	Input Ratings (BTU/H)		Water Pressure PSI	Minimum Flow Rate GPM (L/m)	Flow Rate 45°F (25°C) Temp Rise GPM (L/m)	DHW Connection Size	
	Min	Max				Supply	Return
NFC-250/175H	13,300	210,000	15–150	0.5 (1.9)	7.9 (30.0)	3/4" NPT	3/4" NPT
NFC-250/200H							

Item	Model	
	NFC-250/175H	NFC-250/200H
Dimensions	17.3" W x 17.3" D x 33.5" H	
Boiler weight	141 lb (64 kg)	
Boiler weight with water	170 lb (77 kg)	
Installation type	Indoor wall-hung	
Venting type	Forced draft direct vent	
Ignition	Electronic ignition	
Natural Gas supply pressure (from source)	3.5" to 10.5" WC	
Propane Gas supply pressure (from source)	8.0" to 13.5" WC	
Natural Gas manifold pressure	-0.03" to -0.92" WC	
Propane Gas manifold pressure	-0.02" to -0.77" WC	
Gas connection size	3/4" NPT	
Power supply	Main supply	120V AC, 60Hz
	Maximum power consumption	Less than 15 amperes
Materials	Casing	Cold-rolled carbon steel
	Heat exchanger	Stainless steel
Venting	Exhaust	2" or 3" PVC, CPVC, approved polypropylene 2" or 3" special gas vent type BH (Class III, A/B/C) 2" or 3" stainless steel
	Intake	2" or 3" PVC, CPVC, polypropylene 2" or 3" special gas vent type BH (Class III, A/B/C) 2" or 3" stainless steel
	Vent clearance	0" to combustibles
Safety devices	Flame rod, APS, ignition operation detector, water temperature high limit switch, exhaust temperature high limit sensor, water pressure sensor, burner high limit fuse, vent installation detector (VID)	
Certifications		

NFC-250/175H and NFC-250/200H Series	
Temp. Rise °F (°C)	Flow Rate GPM (L/m) <sup>1</sup>
35 (19)	10.8 (40.9)
40 (22)	9.5 (35.8)
45 (25)	8.4 (31.8)
50 (28)	7.6 (28.6)
55 (31)	6.9 (26.0)
60 (33)	6.3 (23.8)
67 (37)	5.6 (21.4)
70 (39)	5.4 (20.4)
77 (43)	4.9 (18.6)
80 (44)	4.7 (17.9)
85 (47)	4.4 (16.8)
90 (50)	4.2 (15.9)
100 (56)	3.8 (14.3)

<sup>1</sup>Max GPM based on installation conditions.

## Optional Accessories

<b>NaviLink® Wi-Fi Control</b> PBCM-AS-001	<b>Commercial Neutralizer</b> (up to 16 units) GXXX001325	<b>Light Commercial Neutralizer</b> (up to 6 units) GXXX001324	<b>Residential Neutralizer (v2)</b> (1 unit) GXXX002212	<b>Universal Temperature Sensor</b> GXXX001769	<b>Common Vent Collar Kit</b> 30014367B	<b>NaviClean™ Magnetic Filter for Boilers</b> GXXX001727	
							<b>Base</b> <b>Add-on</b>
<b>NaviLink Lite Wi-Fi Control</b> PBCM-AS-002	<b>Commercial Replacement Media</b> GXXX001329	<b>Light Commercial Replacement Media</b> GXXX001328	<b>Residential Replacement Media</b> GXXX001323	<b>HotButton® Components Wall Plate</b> GXXX001427	<b>NaviCirc™ Recirculation Valve</b> NaviCirc™ PFFW-SXX-001	<b>NaviCirc™ Kit</b> 30022965A	
							<b>Ready-Link® Rack Base (V3) and Add-on Rack(s)</b> <b>Base (V3)</b> GFFMKDIZUS-005 <b>Add-on (V3)</b> GFFMKDIZUS-006
<b>Combi-boiler Primary Manifold Kit</b> 30026576B	<b>Cascade Cable</b> GXXX000546	<b>Zone Pump Controller</b> 2 Zones: PFMZ-02P-001 3 Zones: PFMZ-03P-001 4 Zones: PFMZ-04P-001 6 Zones: PFMZ-06P-001	<b>PeakFlow®S Scale Prevention System</b> GPWC1101AC001 <b>PeakFlow A Advanced</b> GPWC3101AC001	<b>HotButton® Components Push Button</b> GXXX001426	<b>NaviCirc™ Recirculation Valve</b> NaviCirc™ PFFW-SXX-001	<b>NaviCirc™ Kit</b> 30022965A	<b>Ready-Link® Rack Base (V3) and Add-on Rack(s)</b> <b>Base (V3)</b> GFFMKDIZUS-005 <b>Add-on (V3)</b> GFFMKDIZUS-006

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