Mavien



NFC-H Series Condensing FireTube Combi-boilers

Ratings & Specifications

	Model				
	NFC-250/175H	NFC-250/200H			
	Product #	Approvals			
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			
	Space Heat	ing Ratings			
AFUE, %	95.0	95.0			
Heating Capacity, BTU/H	161,000	183,000			

Applications

Air Handler Closed Loop Hydronic Heating Systems					
For NFC technical dra	awings of specific installations and requirements please visit Navieninc.com				

Product Features NFC-H: The Inside Story

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

QuickFacts

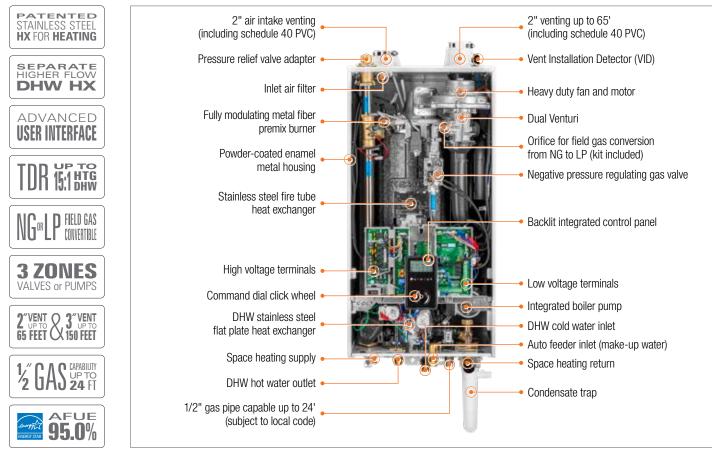
Temperature Range Settings

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

Warranty

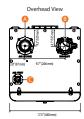
Туре	Residential*	Commercial					
Heat exchanger	10 years	5 years					
Parts*	5 years	3 years					
Labor 1 year 1 year							
*Applies to single family residential location	IS.	·					

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



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Dimensions



Ratings & Specifications

Model	densing Boiler Space	Heating Ratings	ANERI CERTIFIED	Othe	r Space Heating Specificat	ions			
Number ¹ Heating Input (BTU/H)		ing Input (BTU/H) Heating Capacity ² N		Net AHRI Rating	AFUE ²	Water	Water Connection Size	Water	
	Min	Max	(BTU/H)	Water ³ (BTU/H)	%	Pressure	(Supply, Return)	Volume	
NFC-250/175H	13,300	175,000	161,000	140,000	95.0	10,00 mai	12–80 psi	1" NPT	4.5
NFC-250/200H	13,300	199,900	183,000	159,000	95.0	12-00 psi		gallons	

¹ Ratings are the same for natural gas models converted to propane use. ILC D nt of F DOE) test procedures.

d on a piping and pickup allowance of 1.15.





	Connection
🚯 Air Intake	Φ2"
B Exhaust Gas Vent	Φ2"
PRV-Air Vent Connection	Φ 3/4"
Heating Supply	Φ1"
Heating Return	Φ1"
Gas Connection	Φ 3/4"
G Condensate Outlet	Φ 1/2
🕕 Cold Water Inlet (DHW)	Φ 3/4"
Hot Water Outlet (DHW)	Φ 3/4"
Auto Feeder Inlet (Make-up Wa	ater) Φ 1/2'

2 Based on U.S. Department of Energy (DUE) t
³ The net AHRI water ratings shown are based
On any like Northean in stress and a stress in a line for the

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 Domesti	c Hot Water Specifications		
Model Input F		ut Ratings (BTU/H) Water Pressur		Minimum Flow Rate	Flow Rate 45°F (25°C)	DHW Connection Size	
Number	Min	Max	PSI	GPM (L/m)	Temp Rise GPM (L/m)	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	13,300	210,000	15-150	0.5 (1.9)	7.9 (30.0)	3/4 NFT	3/4 NFT

Item		Model		NFC-250/175H and	NFC-250/200H Series
	nem	NFC-250/175H NF	C-250/200H	Temp. Rise	Flow Rate
Dimensions		17.3" W x 17.3" D x 33.5" H		°F (°C)	GPM (L/m) ¹
Boiler weig	ght	141 lb (64 kg)		35 (19)	10.8 (40.9)
Boiler weig	ght with water	170 lb (77 kg)		. , ,	. ,
Installation	n type	Indoor wall-hung		40 (22)	9.5 (35.8)
Venting type	ре	Forced draft direct vent		45 (25)	8.4 (31.8)
Ignition		Electronic ignition		50 (28)	7.6 (28.6)
Natural Ga	as supply pressure (from source)	3.5" to 10.5" WC		55 (31)	6.9 (26.0)
Propane G	as supply pressure (from source)	8.0" to 13.5" WC		60 (33)	6.3 (23.8)
	as manifold pressure	-0.03" to -0.92" WC			. ,
Propane G	as manifold pressure	-0.02" to -0.77" WC		67 (37)	5.6 (21.4)
Gas conne	ection size	3/4" NPT		70 (39)	5.4 (20.4)
Power	Main supply	120V AC, 60Hz		77 (43)	4.9 (18.6)
supply	Maximum power consumption	Less than 15 amperes		80 (44)	4.7 (17.9)
Materials	Casing	Cold-rolled carbon steel		85 (47)	4.4 (16.8)
matorialo	Heat exchanger	Stainless steel		. ,	. ,
		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		90 (50)	4.2 (15.9)
	Exhaust			100 (56)	3.8 (14.3)
Venting	Intake	2 of 3 stalless steel 2" of 3" PVC, CPVC, polypropylene 2" of 3" special gas vent type BH (Class III, A/B, 2" or 3" stalless steel	′C)	¹ Max GPM based on instal	lation conditions.
	Vent clearance	0" to combustibles			
Safety dev	vices	Flame rod, APS, ignition operation detector, wat limit switch, exhaust temperature high limit sens sensor, burner high limit fuse, vent installation d	or, water pressure		

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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NaviLink [®] Wi-Fi Control PBCM-AS-001 NaviLink [®] Cable GXXX001659	Commercial Neutralizer (up to 16 units) GXXX001325 Commercial Replacement Media GXXX001329	Light Commercial Neutralizer (up to 6 units) GXXX001324 Light Commercial Replacement Media GXXX001328	Residential Neutralizer (1 unit) GXXX001322 Residential Replacement Media GXXX001323	Universal Temperature Sensor GXXX001769	Common Vent Collar Kit 30014367A Includes cascade cable (GXXX00546), common vent collar damper and VID jumper cable.	NaviClean [™] Magnetic Filter for Boilers GXXX001727	
	Q.			0)	Base Add-on
Combi-boiler Primary Manifold Kit 30026576A	Cascade Cable GXXX000546	Zone Pump Controller 2 Zones: PFMZ-02P-001 3 Zones: PFMZ-03P-001 4 Zones: PFMZ-04P-001 6 Zones: PFMZ-06P-001	PeakFlow®E Anti-scale System GXXX001725 PeakFlow®E Replacement Media GXXX001726 PeakFlow® Replacement Media GXXX001327	HotButton® Components Wall Plate GXXX001427 Push Button GXXX001426	NaviCirc [™] Recirculation Valve NaviCirc [™] PFFW-SXX-001 NaviCirc [™] Kit 30022965A		Ready-Link® Rack Base (V3) and Add-on Rack(s) Base (V3) GFFMKDIZUS-005 Add-on (V3) GFFMKDIZUS-006

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