Mavien



NFC-H Series Condensing FireTube Combi-boilers

Ratings & Specifications

	Model				
	NFC-250/175H	NFC-250/200H			
	Product A	pprovals			
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 Heating 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

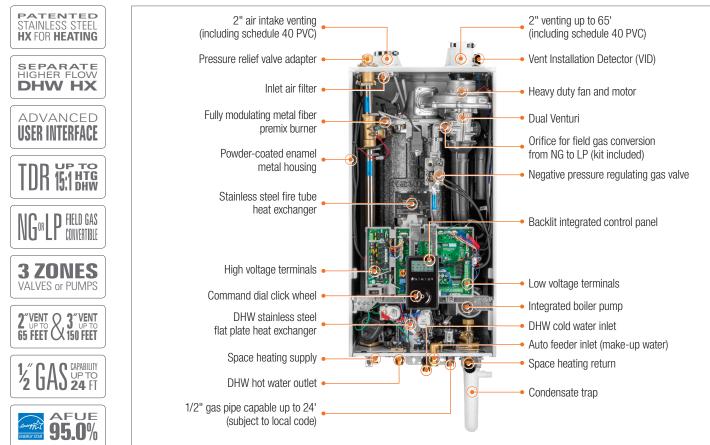
Temperature Range Settings

Item		Temperature Range °F (°C)	Remarks
Crease besting	Supply 7	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)	

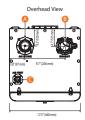
Warranty

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

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



Dimensions



Front View Æ

Ratings & Specifications

Model	Navien Combination Condensing Boiler Space Heating Ratings					Other Space Heating Specifications			
Number ¹	Heating Inp	out (BTU/H)	Heating Capacity ²	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	12–80 psi	1" NPT	4.5	
NFC-250/200H	13,300	199,900	183,000	159,000	95.0	12-60 psi		gallons	

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.

Navien Combination Condensing Boiler Domestic Hot Water Ratings				Other Domesti	c Hot Water Specifications		
Model	Input Ratings (BTU/H)		Water Pressure	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	12 200	210.000	15 150	0.5.(1.0)	7.0 (20.0)	3/4" NPT	3/4" NPT
NFC-250/200H	13,300	210,000	15–150 0.5	0.5 (1.9)	7.9 (30.0)	3/4 NPT	3/4 NP1

	Item	Mode	1	NFC-250/175H and	NFC-250/200H Series	
	item	NFC-250/175H	NFC-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)	
	ght with water	170 lb (77 kg)		40 (22)	9.5 (35.8)	
Installation	n type	Indoor wall-hung			· · /	
Venting typ	pe	Forced draft direct vent		45 (25)	8.4 (31.8)	
Ignition		Electronic ignition		50 (28)	7.6 (28.6)	
Natural Ga	is supply pressure (from source)	3.5" to 10.5" WC		55 (31)	6.9 (26.0)	
	as supply pressure (from source)	8.0" to 13.5" WC		60 (33)	6.3 (23.8)	
Natural Ga	is 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 connection 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)	
materials	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" or 3" Stamless steel 2" or 3" PVC, CPVC, polypropylene 2" or 3" special gas vent type BH (C 2" or 3" stainless steel	¹ Max GPM based on insta	llation conditions.		
Vent clearance		0" to combustibles				
Safety dev	ices	Flame rod, APS, ignition operation d limit switch, exhaust temperature hig sensor, burner high limit fuse, vent in	gh limit sensor, water pressure			
Certificatio	ons	🥌 🛞 会 NSF (

Optional Accessories

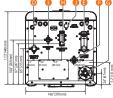
Navien reserves the right to change specifications at any time without prior notice. Please refer to www.navieninc.com to verify you have the most current information.

NaviLink® Wi-Fi Control PBCM-AS-001 NaviLink Lite Wi-Fi Control PBCM-AS-002	Lg. Commercial Neutralizer (up to 16 units) GXXX002367 Lg. Commercial Replacement Media GXXX002369	Commercial Neutralizer (up to 6 units) (XXX002366 Commercial Replacement Media (XXX002368	Residential Neutralizer (V2) (1 unit) GXXX002212 Residential Replacement Media GXXX001323	Universal Temperature Sensor GXXX001769	Common Vent Collar Kit 30014367B Includes cascade cable (GXXX000546), common vent collar damper and VID jumper cable.	NaviClean™ Magnetic Filter for Boilers GXXX001727	
				2 0 2)	Base Add-on
Combi-boiler Primary Manifold Kit 30026576C	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®S Scale Prevention System GPWC1101AC001 PeakFlow A Advanced GPWC3101AC001	HotButton® Components Wall Plate GXXX001427 Push Button GXXX001426	NaviCirc™ Recirculation NaviCirc™ PFFW-SXX-001 NaviCirc™ Kit 30022965A	I Valve	Ready-Link® Rack Base (V4) and Add-on Rack(s) Base (V4) GFFMKDIZUS-009 Add-on (V4) GFFMKDIZUS-010

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(0.0.0) Supply Connections 06 Ð



	c	onnection Siz	
A	Air Intake	Φ 2"	
B	Exhaust Gas Vent	Φ 2"	
0	PRV-Air Vent Connection	Φ 3/4"	
Ð	Heating Supply	Φ1"	
• 🔁	Heating Return	Φ1"	
6	Gas Connection	Φ 3/4"	
G	Condensate Outlet	Φ 1/2"	
0	Cold Water Inlet (DHW)	Φ 3/4"	
Ó	Hot Water Outlet (DHW)	Φ 3/4"	
0	Auto Feeder Inlet (Make-up Wat	ter) Ф 1/2"	