



QuickFacts

NFC Series

Condensing Fire Tube Combi-boilers

Navien Certification Summary

	Model			
	NFC-175	NFC-200		
	Product A	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	202245848	202245849		
Energy Star	Yes	Yes		
	Space Heating Ratings			
AFUE, %	95.0	95.0		
Heating Capacity, MBH	161	183		

Applications

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

Gas Input Ranges

Model	Heating (MBH)	DHW (BTU/H)
NFC-175	18,000-175,000	18,000-199,900
NFC-200	18,000-199,900	18,000-199,900

Temperature Range Settings

	Item		Temperature Range °F (°C)	Remarks
	Sana Haatina	Supply	77-194 (25-90)	Actual supply and return temperatures vary
) 9	Space Heating	Return	68-158 (20-70)	depending on the selected outdoor reset curve.
	DHW		89-140 (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 locations.

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

Product Features







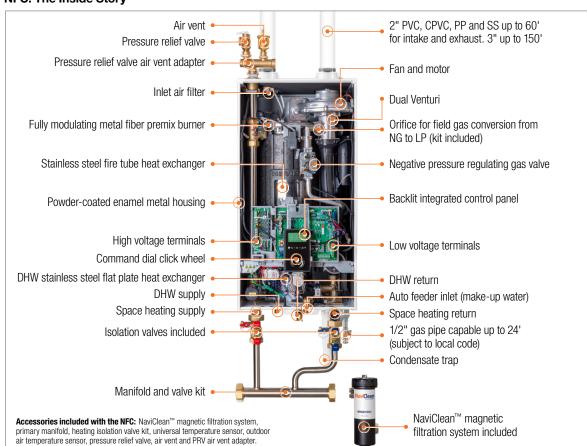






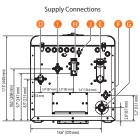


NFC: The Inside Story



Dimensions





	Connection S
Air Intake	Φ 2"
B Exhaust Gas Vent	Φ2"
 Air Vent Connection 	Φ 3/4"
Heating Supply	Φ1"
Heating Return	Φ1"
Gas Connection	Φ 3/4"
G Condensate Outlet	Φ 1/2"
DHW Return	Φ 3/4"
DHW Supply	Φ 3/4"
Auto Feeder Inlet (Make-up Wa	ater) Ф 1/2"

Ratings & Specifications

Madal	Navien Combination Condo			eating Ratings	ALERI CERTIFIED	Othe	r Space Heating Specificat	tions
Model Number ¹	Heating In	put (BTU/H)	Heating Capacity ²	Net AHRI Rating	AFUE ²	Water	Water Connection Size	Water
	Min	Max	(MBH)	Water ³ (MBH)	(%)	Pressure	(Supply, Return)	Volume
NFC-175	18,000	175,000	161	140	95.0	12–80 psi	1" NPT	4.5 gallon
NFC-200	18,000	199,900	183	159	95.0	12-00 psi	I INPT	4.5 yallon

¹ Ratings are the same for natural gas models converted to propane use.

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.

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 Rat	ings (BTU/H)	Water Pressure	Minimum Flow Rate	te Flow Rate 45°F (25°C) DHW Connection		ection Size
Number	Number Min Max	Max	PSI	GPM (L/m)	Temp Rise GPM (L/m)	Supply	Return
NFC-175	18.000	199.900	15–150	0.5 (1.9)	7.9 (30.0)	3/4" NPT	3/4" NPT
NFC-200	16,000	199,900	15-150	0.5 (1.9)	7.9 (30.0)	3/4 NPT	3/4 NP1

	14	Model			
	Item	NFC-175	NFC-200		
Dimensions		17.3" W x 17.3" D x 33.5" H	17.3" W x 17.3" D x 33.5" H		
Boiler weight		145 lb (66 kg)			
Boiler weight w	ith water	183 lb (83 kg)			
Installation type)	Indoor wall-hung			
Venting type		Forced draft direct vent			
Ignition		Electronic ignition			
Natural Gas sup	oply pressure (from source)	3.5" to 10.5" WC			
Propane Gas su	ipply pressure (from source)	8.0" to 13.5" WC			
Natural Gas ma	nifold pressure	-0.05" to -0.47" WC	-0.05" to -0.20" WC		
Propane Gas m	anifold pressure	-0.10" to -0.45" WC	-0.10" to -0.45" WC		
Gas connection size		3/4" NPT			
	Main supply	120V AC, 60Hz			
Power supply	Maximum power consumption	Less than 15 amperes			
Matariala	Casing	Cold-rolled carbon steel			
Materials	Heat exchangers	Stainless steel	Stainless steel		
	Exhaust	2" or 3" PVC, CPVC, PP and SS 2" or 3" special gas vent type BH, (Class III, A/B/C)			
Venting	Intake	2" or 3" PVC, CPVC, PP and SS 2" or 3" special gas vent type BH, (Class III, A/B/C)			
	Vent clearance	0" to combustibles			
Safety devices		Flame rod, APS, ignition oper high limit switch, exhaust terr water pressure sensor	ration detector, water temperatur nperature high limit sensor,		

NFC-175 and NFC-200 Series					
Temp. Rise °F (°C)	Flow Rate GPM (L/m) ¹				
35 (19)	10.4 (39.5)				
40 (22)	9.0 (34.1)				
45 (25)	7.9 (30.0)				
50 (28)	7.2 (27.3)				
55 (31)	6.6 (25.0)				
60 (33)	6.0 (22.7)				
67 (37)	5.4 (20.4)				
70 (39)	5.1 (19.3)				
77 (43)	4.7 (17.8)				
80 (44)	4.5 (17.0)				
85 (47)	4.2 (15.9)				
90 (50)	4.0 (15.1)				
100 (56)	3.6 (13.6)				

¹Max GPM based on installation conditions.

Optional Accessories















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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.