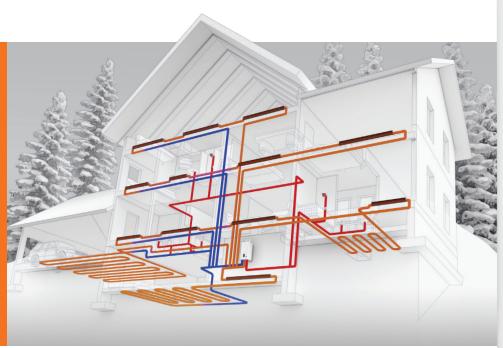


NFC-H Condensing High Capacity Fire Tube Combi-boilers



Navien

The highest selling combi-boiler brand goes even higher with whole house heating and DHW

NaviLink® Wi-Fi remote control system... available as an add-on accessory.



NFC-H NAVIEN FIRE TUBE CONDENSING HIGH CAPACITY COMBI-BOILERS

Highest heating and DHW performance ever built into one compact combi-boiler

Navien innovation, durability and proven fire tube technology has done it again. The new NFC-H has more heating and DHW capacities for today's larger progressive homes. Navien continues to reinvent smarter ways to bring high efficiency home comfort to your customers. Also, Navien continues to make installation and set-up easier for contractors.







Navien takes high efficiency fire tube combi technology to new heights

- **Highest** DHW maximum BTU/H in residential combi-boilers... 210,000 per hour
- **Highest** DHW flow rate @ 70°F rise... up to 5.4 GPM
- **Highest** residential combi DHW 15:1 TDR
- **Highest** residential combi heating TDR... up to 15:1*
- *Based on NFC-250/200H.

- High altitude certification... up to 10,100 feet (NG or LP
- Built-in zone controls for up to three zone valves or zone pumps
- Cascade capable with up to 15 NPE tankless water heaters for expanded DHW flow



COMPARE THESE ADVANTAGES AND SEE WHY NFC-H COMBI'S ARE THE RIGHT FIT FOR SMALL AND LARGE HOMES

Patented stainless steel fire tube heat exchanger

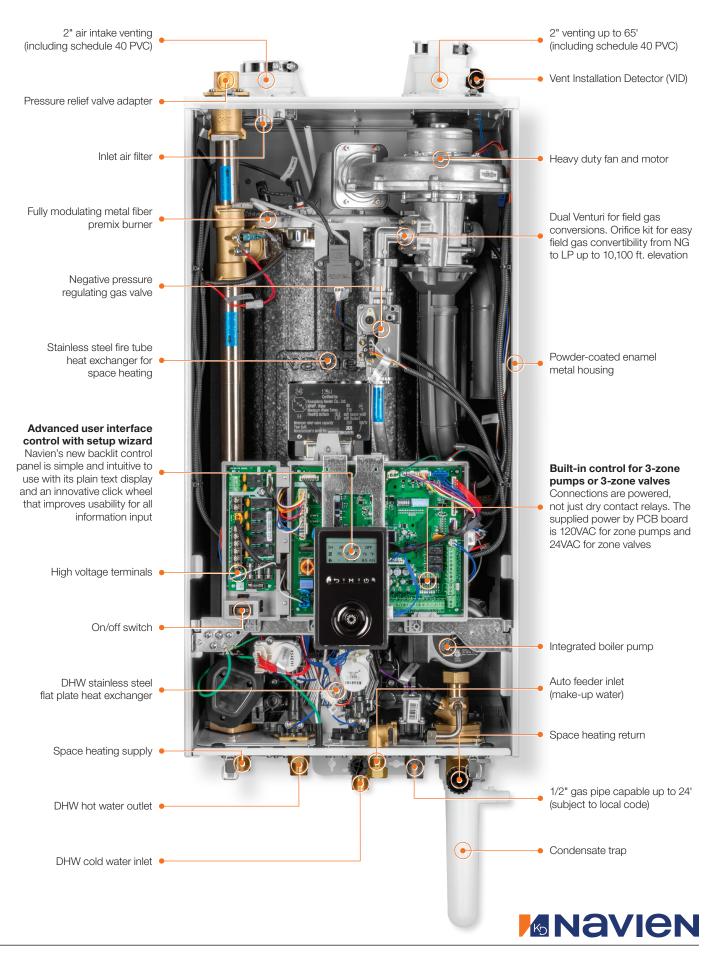
Navien's advanced patented stainless steel heat exchanger design is ASME-Certified, "H" Stamped, and reduces high stress point weld failures common on other combi-boilers. This compact, in-house designed and manufactured heat exchanger uses the latest automated laser welding technology to deliver superior product quality.



Built-in DHW module now with advanced performance

Navien's new innovative domestic hot water heat exchanger now generates even more hot water, giving customers the ability to run up to 3 showers and a dishwasher, all at the same time with up to 5.4 gallons per minute at a 70°F temperature rise.





PE REASONS TO CHOOSE NFC-H FOR THE BEST ALL-IN-ONE HOT WATER SYSTEM





TDR up to 15:1 for heating and for DHW

The sophisticated gas flow control system provides a high turndown ratio, reducing energy waste and excessive boiler cycling and enhances temperature control for DHW.



2" PVC venting and 1/2" gas pipe capability

Save time and effort in retrofit application with 2" PVC venting up to 65' or up to 150' with 3" venting. 1/2" gas lines for up to 24' also speeds up installations.





Easy access to DHW module and valves

All components of DHW module including water feed valve, flow adjustment valve, mixing valve and cartridge-style 3-way valve are right behind circuit board for easy serviceability.



Space saving and light weight design

Navien's sleek wall-hung combi-boilers occupy 80% less space than traditional floor standing boilers and tank water heaters.



Expanded DHW capability

For increased domestic hot water flow demand, the NFC-H can be cascaded with up to 15 NPE-2 tankless water heaters.



Dual Venturi and field gas convertibility

Dual Venturi system creates better combustion control and turndown ratio. Field gas convertibility is easy with orifice conversion kits for NG high altitude (5,400-10,100 ft.) and LP (up to 10,100 ft.) included with NFC-H Series







NFC-H combi-boiler accessories



Wi-Fi control

This add-on accessory will enable customers with smartphones and tablets to control temperatures remotely, access usage data and receive diagnostic notifications on NFC-H models.

PBCM-AS-001





Wi-Fi control

This add-on accessory will enable customers with smartphones and tablets to control temperatures remotely, access usage data and receive diagnostic notifications on all Navien products.

PBCM-AS-002



HotButton®

DHW activation

At the push of a button, the HotButton® hot water system activates the DHW heat exchanger to heat water in the supply lines to provide hot water only when it's needed.

PZZZ-00063





NaviClean...

Magnetic filtration system

Removes higher levels of iron oxides, sludge and debris with powerful magnetic filter.

GXXX001727



PeakFlow[®]S

Scale prevention system GPWC110001AC001

PeakFlow®S replacement filter GWFC110GD001



SmartZone+

Pump controller

Allows control from 4 to 6 zone pumps and expansion of built-in NFC-H zoning.

2 Zones: PFMZ-02P-001

3 Zones: PFMZ-03P-001 4 Zones: PFMZ-04P-001

6 Zones: PFMZ-06P-001



Navi^{*}irc

Recirculation valve

NaviCirc[™]

PFFW-SXX-001

NaviCirc™ kit 30022965A



Combi-boiler primary manifold kit

This package includes new stainless steel manifold, system-matched isolation valves and PRV-air vent adapter. 30026576C



Common vent collar kit

Required for common venting the NFC-H with NPE tankless water heaters.

Includes common vent collar damper, VID jumper cable and cascade cable. (GXXX000546)



LG. Commercial neutralizer

Commercial condensate neutralizer (1 NFC-H and up to 15 NPE's).

Large Commercial replacement media

GXXX002369



Commercial neutralizer

Commercial condensate tank neutralizer (1 NFC-H and up to 5 NPE's). GXXX002366

Commercial replacement media GXXX002368



Residential neutralizer (V2)

Residential condensate neutralizer for NFC-H series units designed to neutralize the condensate of one unit. GXXX002212

Residential replacement media GXXX001323



Cascade cable

Up to 15 NPE-A/S tankless water heaters. GXXX000546



Universal temperature sensor

Designed to sense supply, return or tank water temperature. Works with all NFC-H series combi-boilers. GXXX001769



Ready-Link® rack base (V4) and add-on rack(s)

Base (V4)

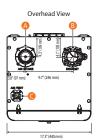
GFFM-KDIZUS-009

Add-on (V4)

GFFM-KDIZUS-010



Dimensions







| | | onnection Siz |
|---|-------------------------------|---------------|
| A | Air Intake | Φ2" |
| B | Exhaust Gas Vent | Φ2" |
| 0 | PRV-Air Vent Connection | Φ 3/4" |
| 0 | Heating Supply | Φ1" |
| • | Heating Return | Φ1" |
| • | Gas Connection | Φ 3/4" |
| G | Condensate Outlet | Φ 1/2" |
| • | Cold Water Inlet (DHW) | Φ 3/4" |
| 0 | Hot Water Outlet (DHW) | Φ 3/4" |
| | Auto Feeder Inlet (Make-up Wa | ter) Φ 1/2" |

Ratings & specifications

| Navien | Combinatio Space Hea | g Boiler | ALER CERTIFIE | | Other S _i | pace Heating Specifi | cations | | |
|---------------------|-------------------------|-------------|----------------------------------|--------------------------------------|---------------------------|-------------------------------------|-----------|-------------|-------------|
| Model | Heating In | put (BTU/H) | Heating | Net AHR | AFUE ² | Water | Water | Water | |
| Number ¹ | Min | Max | Capacity ² (BTU/H) | Rating Water ³ (BTU/H) | Rating Water 0/2 Pressure | Connection Size (Supply, Return) | Volume | | |
| NFC-250/175H | 13,300 | 175,000 | 161,000 | 140,000 | 95.0 | 10 00 poi | 12-80 psi | 1" NPT | 4.5 gallons |
| NFC-250/200H | 13,300 | 199,900 | 183,000 | 159,000 | 95.0 | 12-60 psi | INFI | 4.5 gallons | |

 $^{^{\}rm 1}\,\mbox{Ratings}$ are the same for natural gas models converted to propane use.

Consult Navien before selecting a boiler for installations having unusual piping and pickup requirements, such as intermitted system correction, extensive piping systems, do

| 30011 03 11110 | i i i i i i i i i i i i i i i i i i i | y storri ope | Jianoii, | CATCHISIVE | pipii ig | ayatorria, | CIG |
|----------------|---------------------------------------|--------------|----------|------------|----------|------------|-----|
| | | | | | | | |

| Navien Combination Condensing Boiler Domestic Hot Water Ratings | | | | Other | r Domestic Hot Water | r Specifications | |
|--|-------------|-------------|-----------------|------------------------|-------------------------------|----------------------------|----------|
| Model | Input Ratio | ngs (BTU/H) | Water | Minimum | Flow Rate 45°F | DHW Supply Connection Size | |
| Number | Min | Max | Pressure PSI | Flow Rate GPM (L/m) | (25°C) 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 INPT | 3/4 INPT |

| | la | Model | | |
|----------------|----------------------------------|---|--|--|
| | Item | NFC-250/175H | NFC-250/200H | |
| Dimension | S | 17.3" W x 17.3" D x 33.5" H | | |
| Boiler weig | ht | 141 lb (64 kg) | | |
| Boiler weig | ht with water | 170 lb (77 kg) | | |
| Installation | type | Indoor wall-hung | | |
| Venting typ | oe e | Forced draft direct vent | | |
| Ignition | | Electronic ignition | | |
| Natural gas | s supply pressure (from source) | 3.5" to 10.5" WC | | |
| Propane ga | as supply pressure (from source) | 8.0" to 13.5" WC | | |
| Natural gas | s manifold pressure | -0.03" to -0.92" WC | | |
| Propane ga | as manifold pressure | -0.02" to -0.77" WC | | |
| Gas conne | ction size | 3/4" NPT | | |
| Power | Main supply | 120V AC, 60Hz | | |
| supply | Maximum power consumption | Less than 15 amperes | | |
| Materials | Casing | Cold-rolled carbon steel | | |
| Materials | Heat exchanger | Stainless steel | | |
| | Exhaust | 2" or 3" PVC, CPVC, approv 2" or 3" special gas vent typ 2" or 3" stainless steel | | |
| Venting | Intake | 2" or 3" PVC, CPVC, polypropylene 2" or 3" special gas vent type BH (Class III, 2" or 3" stainless steel | | |
| | Vent clearance | 0" to combustibles | | |
| Safety devices | | Flame rod, APS, ignition op- temperature high limit switc high limit sensor, water pres high limit fuse, vent installati | h, exhaust temperatu ssure sensor, burner | |
| Certifications | | 20 (€) (NSF) (*) | AHRI CERTIFIED | |

| NFC-250/175H and NFC-250/200H Series | | | | | |
|---|-------------------------------------|--|--|--|--|
| Temp. Rise °F (°C) | Flow Rate GPM (L/m) ¹ | | | | |
| 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) | | | | |

¹ Max GPM based on installation conditions.

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.

Heating input ranges

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

Temperature setting ranges

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

Warranty

| Time | Residential* | Commercial |
|----------------|--------------|------------|
| Туре | nesidential | 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.

Navien Inc., 20 Goodyear, Irvine, CA 92618 800-519-8794 navieninc.com Navien Canada, Inc. 555 Hanlan Rd., Unit 7 Vaughan, ON L4L 4R8 800-519-8794 navieninc.ca



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²Based on U.S. Department of Energy (DOE) test procedures.

³The net AHRI water ratings shown are based on a piping and pickup allowance of 1.15.