



QuickFacts

NFC Series Condensing Fire Tube Combi-boilers

Navien Certification Summary

| | Model | |
|------------------------------|---------------|---------------|
| | NFC-175 | NFC-200 |
| 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 | 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 | | |
|-------------|--------------------------------------|---------------------|-----------------------|
| | Hydronic fan coils | Baseboard radiators | Radiant floor heating |

For NCB-H technical drawings of specific installations and requirements please visit NavienInc.com

Product Features

ALL INCLUDED

TDR UP TO 11:1 HTG DHW

2"-3" VENTING LONG DISTANCES

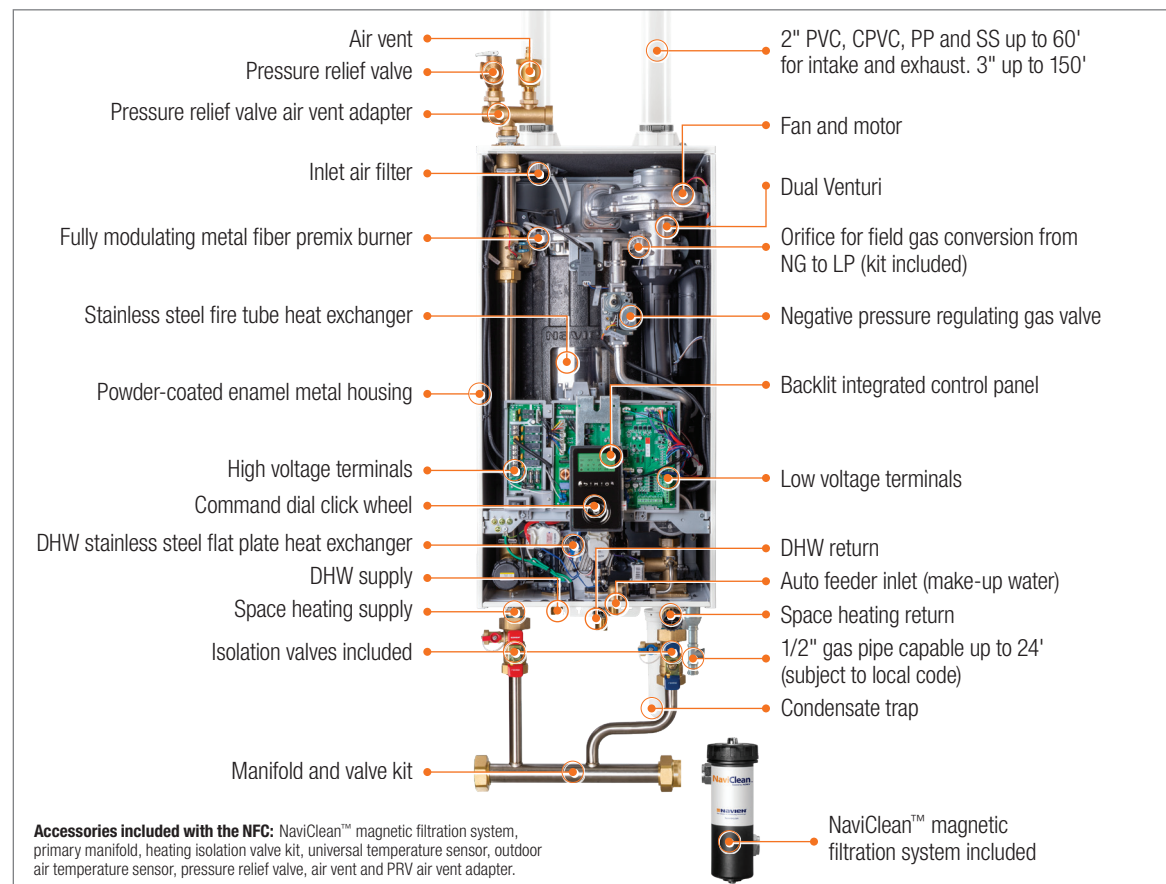
HTG & DHW 199k BTU/h

ADVANCED USER INTERFACE

NG OR LP FIELD GAS CONVERTIBLE

AFUE 95.0%

NFC: The Inside Story



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

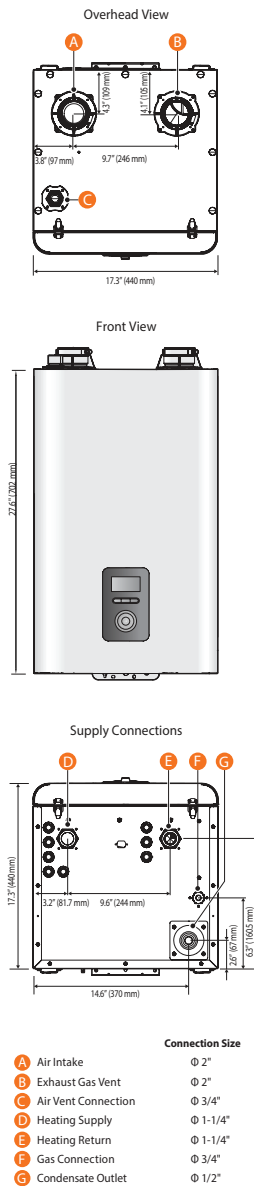
| Item | | Temperature Range °F (°C) | Remarks |
|---------------|--------|---------------------------|---|
| Space Heating | Supply | 77–194 (25–90) | Actual supply and return temperatures vary depending on the selected outdoor reset curve. |
| | Return | 68–158 (20–70) | |
| DHW | | 89–140 (30–60) | |

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.

Dimensions



Ratings & Specifications

| Model Number ¹ | Navien Combination Condensing Boiler Space Heating Ratings | | | | | Other Space Heating Specifications | | |
|---------------------------|--|---------|-------------------------------------|--|-----------------------|------------------------------------|--|--------------|
| | Heating Input (BTU/H) | | Heating Capacity ² (MBH) | Net AHRI Rating Water ³ (MBH) | AFUE ² (%) | Water Pressure | Water Connection Size (Supply, Return) | Water Volume |
| | Min | Max | | | | | | |
| 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 | | | | |

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 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-175 | 18,000 | 199,900 | 15–150 | 0.5 (1.9) | 7.9 (30.0) | 3/4" NPT | 3/4" NPT |
| NFC-200 | | | | | | | |

| Item | Model | |
|---|--|--|
| | NFC-175 | NFC-200 |
| Dimensions | 17.3" W x 17.3" D x 33.5" H | |
| Boiler weight | 145 lb (66 kg) | |
| Boiler weight with water | 183 lb (83 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 | -0.05" to -0.47" WC | -0.05" to -0.20" WC |
| Propane Gas manifold pressure | -0.10" to -0.45" WC | -0.10" to -0.45" 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 exchangers | Stainless steel |
| Venting | Exhaust | 2" or 3" PVC, CPVC, PP and SS 2" or 3" special gas vent type BH, (Class III, A/B/C) |
| | 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 operation detector, water temperature high limit switch, exhaust temperature high limit sensor, water pressure 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.

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

| | | | | | | | | | |
|---|---|---|--|---|--|--------------------------|---|---|----------------------------------|
| | | | | | | | | | |
| NaviLink™ Wi-Fi Control PBCM-AS-001 NaviLink™ Cable GXXX001659 | NFC Series Secondary Manifold Kit GFFM-SKTZUS-001 | Residential Neutralizer(V2) (1 unit) GXXX002212 Residential Replacement Media GXXX001323 | Commercial Neutralizer (up to 6 units) GXXX002366 Commercial Replacement Media GXXX002368 | Lg. Commercial Neutralizer (up to 16 units) GXXX002367 Lg. Commercial Replacement Media GXXX002369 | PeakFlowE™ Anti-scale System GXXX001725 PeakFlowE™ Replacement Media GXXX001726 PeakFlow™ Replacement Media GXXX001327 | 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 | Universal Temperature Sensor GXXX001769 | Common Vent Collar Kit 30014367A |



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