

## Dimensions



## Ratings & specifications

| Item   |                          | NPN-Universal Model  |                               |                               | NPN-Exterior Model                   |                               |                               |
|--|--------------------------|--|-------------------------------|-------------------------------|--------------------------------------|-------------------------------|-------------------------------|
|  |                          | NPN-100U   | NPN-100U                      | NPN-100U                      | NPN-100E                             | NPN-100E                      | NPN-100E                      |
| Heat capacity (input)<br>natural gas/propane gas |                          | 10,700-<br>160,000<br>(BTU/h)                                | 10,700-<br>160,000<br>(BTU/h) | 10,700-<br>160,000<br>(BTU/h) | 10,700-<br>160,000<br>(BTU/h)        | 10,700-<br>160,000<br>(BTU/h) | 10,700-<br>160,000<br>(BTU/h) |
| Efficiency Rating for NG & LP                    |                          | 0.81 UEF   |                               |                               |                                      |                               |                               |
| Flow rate<br>(GPM)                               | 35°F (1°C)<br>temp rise  | 7.6 GPM<br>(28.8 L/m)  | 8.5 GPM<br>(32.2 L/m)         | 9.5 GPM<br>(35.0 L/m)         | 7.6 GPM<br>(28.8 L/m)                | 8.5 GPM<br>(32.2 L/m)         | 9.5 GPM<br>(35.0 L/m)         |
|  | 45°F (20°C)<br>temp rise | 5.8 GPM<br>(22.3 L/m)  | 6.6 GPM<br>(25.0 L/m)         | 7.4 GPM<br>(28.0 L/m)         | 5.8 GPM<br>(22.3 L/m)                | 6.6 GPM<br>(25.0 L/m)         | 7.4 GPM<br>(28.0 L/m)         |
|  | 57°F (32°C)<br>temp rise | 4.0 GPM<br>(15.1 L/m)  | 4.6 GPM<br>(17.0 L/m)         | 5.0 GPM<br>(18.0 L/m)         | 4.0 GPM<br>(15.1 L/m)                | 4.6 GPM<br>(17.0 L/m)         | 5.0 GPM<br>(18.0 L/m)         |
| Dimensions                                       |                          | 14.0" W x 23.0" H x 9.3" D                                   |                               |                               |                                      |                               |                               |
| Weight   |                          | 55.0 lbs.<br>(25 kg)   | 55.0 lbs.<br>(25 kg)          | 55.0 lbs.<br>(25 kg)          | 55.0 lbs.<br>(25 kg)                 | 55.0 lbs.<br>(25 kg)          | 55.0 lbs.<br>(25 kg)          |
| Installation type                                |                          | Indoor or outdoor wall-hung<br>(vent kit option for outdoor) |                               |                               | Only outdoor wall-hung               |                               |                               |
| Venting type                                     |                          | Concentric   |                               |                               | No-venting outdoor installation only |                               |                               |
| Ignition type                                    |                          | Electronic ignition  |                               |                               |                                      |                               |                               |
| Water pressure                                   |                          | 15-150 PSI   |                               |                               |                                      |                               |                               |
| Natural gas supply pressure<br>(from source)     |                          | 3.5" WC - 10.5" WC   |                               |                               |                                      |                               |                               |
| Propane gas supply pressure<br>(from source)     |                          | 8" WC - 12" WC   |                               |                               |                                      |                               |                               |
| Natural gas manifold pressure<br>(in-inlet)      |                          | 2.80" WC   | 2.25" WC                      | 2.81" WC                      | 2.23" WC                             | 2.38" WC                      | 2.99" WC                      |
| Propane gas manifold pressure<br>(in-inlet)      |                          | 5.50" WC   | 5.28" WC                      | 5.52" WC                      | 5.34" WC                             | 5.38" WC                      | 5.81" WC                      |
| Minimum flow rate                                |                          | 0.5 GPM (1.9 L/m)  |                               |                               |                                      |                               |                               |
| Connection<br>size                               | Cold water inlet         | 3/4" NPT   |                               |                               |                                      |                               |                               |
|  | Hot water outlet         | 3/4" NPT   |                               |                               |                                      |                               |                               |
| Power supply                                     | Gas inlet                | 3/4" NPT   |                               |                               |                                      |                               |                               |
|  | Main supply              | 120V AC, 60 Hz   |                               |                               |                                      |                               |                               |
|  | Normal                   | 90 W   | 90 W                          | 90 W                          | 90 W                                 | 90 W                          | 120 W                         |
|  | Standby                  | 4 W  |                               |                               |                                      |                               |                               |
|  | Anti-frost               | 114 W  |                               |                               |                                      |                               |                               |
| Materials  | External pump            | < 150 W, 1.5 A   |                               |                               |                                      |                               |                               |
|  | Flue                     | 5.0 A  |                               |                               |                                      |                               |                               |
| Safety devices                                   | Casing                   | Cold rolled carbon steel                                     |                               |                               |                                      |                               |                               |
|  | Heat exchanger           | Stainless steel  |                               |                               |                                      |                               |                               |

Navien reserves the right to change specifications at any time without prior notice.  
Please refer to [www.Navieninc.com](http://www.Navieninc.com) to verify you have the most current information.



## Warranty

| Application         |                             | Labor  | Parts   | Heat Exchanger |
|---------------------|-----------------------------|--------|---------|----------------|
| Residential         | Standard                    | 1 year | 5 years | 10 years       |
|                     | Uncontrolled Recirculation* | 1 year | 3 years | 5 years        |
| Commercial or Combi | Standard                    | 1 year | 5 years | 5 years        |
|                     | Uncontrolled Recirculation* | 1 year | 3 years | 3 years        |

\*Combi refers to a combination potable water and space heating application. Water heaters cannot be used in space heating only applications.

\*Uncontrolled Recirculation: External pumps configured to circulate continuously through the water heater are subject to the uncontrolled recirculation warranty terms. An aquastat is the minimum pump control requirement for DHW or storage tank recirculation in order to maintain the full controlled recirculation warranty.

For complete details please refer to the full warranty at [www.Navieninc.com](http://www.Navieninc.com).



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N O N - C O N D E N S I N G T A N K L E S S R E I N V E N T E D

# Navien Service Manual

**Jianjun Gao**



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