1 – GENERAL SPECIFICATIONS

**Product Features:**
- Certified to ANSI Z21.13 / CSA 4.9 Gas-fired Boiler Standard
- Type 441 Stainless Steel Water Tube Heat Exchanger
- ASME “H” stamped boiler, designed and constructed in compliance with the ASME Boiler and Pressure Vessel Code Section IV
- Maximum operating pressure 50 psi (CH circuit)
- Maximum operating pressure 150 psi (DHW circuit)
- Wall mounted
- Zero clearance to combustibles (clearances required for service)
- Modulating burner, 10:1 turndown ratio
- Certified as Direct Vent (sealed combustion) or for use with indoor combustion air
- Sealed cabinet
- High energy ignition transformer (spark ignition)
- Built-in water pressure bypass (guarantees minimum water flow)
- Low water pressure switch
- Integrated ECM boiler circulator
- Integrated 3-way valve (diverts between DHW & CH demands)
- Integrated Condensate Trap
- On / Off button
- 120 VAC output for external CH circulator
- Built-in DHW flow sensor, w/serviceable filter
- Built-in DHW brazed plate heat exchanger
- CH zone input x 2 (ON/OFF switch or NTI Room Sensor)
- WiFi remote connectivity embedded
- Outdoor temperature sensor input (or access weather via WiFi connection)

**Control Features:**
- Integral microprocessor safety control – flame safeguard and temperature
- TEST Mode – for combustion setup
- PURGE cycle – for air purging
- AUTO function (outdoor/indoor reset) – resets boiler temperature depending on outdoor and/or room temperature
- Adjustable reset curve (slope/parallel shift)
- Adjustable reset temperature boost
- Summer/Winter changeover (WWSD)
- Integrated programmable T-stat x 2 (with optional NTI Room Sensors)
- Freeze protection
- Factory settings restore option
- Cascade up to 8 TRX-series boilers
- Selectable DHW Preheat feature
- Adjustable post purge timer
- Adjustable ignition delay timer
- Manual mode operation (pump/fan/diverter)
- Boiler statistics
- Lockout and error history
- Optional 0-10V / 4-20mA input clip-in module
- Optional NTI 3-Zone Pump/Valve Controller
- Optional NTI Room Sensor

**Factory Supplied Items:**
- 10K thermistor outdoor sensor
- 30 psi ASME pressure relief valve
- Pressure & temperature gauge
- LP conversion kit
- Vent screens

<table>
<thead>
<tr>
<th>CH – Water Connections, NPT</th>
<th>DHW – Water Connections, NPT</th>
<th>Gas Connection, NPT</th>
<th>Vent/Air-Inlet Connection</th>
<th>Max. Vent/Air-Inlet Length (3” pipe)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-¼” (Male)</td>
<td>¾” (Male)</td>
<td>¾” (Male)</td>
<td>3 in. PVC/CPVC/PP</td>
<td>150 ft</td>
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</tbody>
</table>

**Performance Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Input Rating, MBH</th>
<th>Heating Capacity, MBH</th>
<th>Net AHRI Rating, Water MBH</th>
<th>AFUE %</th>
<th>DHW Flow (77°F Rise)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRX199C</td>
<td>19.7 - 197</td>
<td>184</td>
<td>160</td>
<td>95</td>
<td>35°F Rise: 10.5, 45°F Rise: 8.2, 77°F Rise: 4.8</td>
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</table>
TRX199C
High Efficiency Gas-Fired Condensing Boiler

2 – PRODUCT DIMENSIONS - in.

MINIMUM SERVICE CLEARANCES - in.

<table>
<thead>
<tr>
<th>Front</th>
<th>Top</th>
<th>Sides</th>
<th>Back</th>
<th>Bottom</th>
<th>Flue Pipe</th>
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</thead>
<tbody>
<tr>
<td>18</td>
<td>14</td>
<td>2</td>
<td>0</td>
<td>12</td>
<td>1</td>
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</tbody>
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