**Modulation Factor Control**

- Boost Temperature & Time
- Ramp Delay
- Outdoor Air Reset Curve
- Anti-Cycling
- Night Setback

**Programmable System Efficiency Optimizers**

- Last 10 Lockouts
- Ignition Attempts
- Hours Running, Modulation Rate
- Hours Running, Domestic Hot Water
- Hours Running, Space Heating

**Time Clock**

- Service Reminder

**Freeze Protection**

- Condensate Trap w/Blockaded Drain Switch
- Drain Valve
- System Sensor
- Outdoor Air Sensor
- Inlet & Outlet Temperature Sensors

**High-Voltage Terminal Strip**

- Downstream Gas Test Cocks
- 50 psi ASME Relief Valve
- Temperature & Pressure Gauge

**DHW Tank Prioritization**

- Direct-Spark Ignition
- Modulating Burner with up to 25:1 Turndown

**Optional Equipment**

- Three Pump Control
  - System Pump
  - Boiler Pump
  - Domestic Hot Water Pump
- High-Voltage Terminal Strip
  - 120 VAC / 60 Hertz / 1 Phase Power Supply
  - System Pump, Boiler Pump and DHW Pump Power
- Low-Voltage Terminal Strip
  - 24 VAC Auxiliary Device Relay
  - Auxiliary Proving Switch Contacts
  - Alarm on Any Failure Contacts
  - Runtime Contacts
  - DHW Thermostat Contacts
  - Unit Enable/Disable Contacts
  - System Sensor Contacts
  - DHW Tank Sensor Contacts
  - Outdoor Air Sensor Contacts
  - Cascade Contacts
  - 0-10 VDC BMS External Control Contact
  - 0-10 VDC Variable Speed Boiler Pump Control Contact

**Electrical Options**

- Variable Speed Boiler Pump
- Motorized Isolation Valve
- Dual Fuel Gas Train
- SMART TOUCH PC Software
- Condensate Neutralization Kit
- Wireless Outdoor Temperature Sensor
- BMS Gateway - BACnet IP or LonWorks
- Alarm Bell

**Low-Voltage Terminal Strip**

- 0-10 VDC Auxiliary Device Relay

**High-Voltage Terminal Strip**

- Domestic Hot Water pump

**Codes & Registrations**

- ANSI Z21.13/CSA Certified
- ASME Certified, *“H” Stamp/ National Board
- California Code Compliant
- CSD1 / Factory Mutual / GE Gap Compliant
- Canadian Registration Number (CRN)
- South Coast Air Quality Management District Qualified

**Standard Features**

- 96.2% Thermal Efficiency (AHRI)
- Low NOx Operation
- Sealed Combustion
- Air Inlet Filter w/Replacement Reminder
- Low Gas Pressure Operation
- Vertical and Horizontal Direct Venting

**Low Gas Pressure Operation**

- Direct-Vent up to 100 Feet
- PVC, CPVC, Polypropylene or AL29-4C
- Direct-Spark Ignition
- Modulating Burner with up to 25:1 Turndown
- 96.2% Thermal Efficiency (AHRI)

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<th>Model Number</th>
<th>Min</th>
<th>Max</th>
<th>AHRI Input MBH</th>
<th>Net AHRI Output MBH</th>
<th>Gas Code</th>
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**NOTES:** Indoor installation only. Change “N” to “L” for LP gas models and to “D” for dual fuel models. (Consult factory for availability of Dual Fuel models)

**Con Xin-US Remote Connect**

- SMART TOUCH Touchscreen Operating Control
- Full-Color 8 Touchscreen LCD Display

**Building Management System Integration**

- with 0-10 VDC Input
- BACnet MSTP Communications
- Modbus Communication
- Outdoor Reset Control with Outdoor Air Sensor
- Password Security
- Outdoor Air Reset Curve

**High Efficiency Features**

- 316L Stainless Steel Fire Tubes
- 160 psig Working Pressure
- On/Off Switch
- Adjustable High Limit with Manual Reset
- Low Water Cutout with Manual Reset & Test
- High & Low Gas Pressure Switches w/Manual Reset
- Low Air Pressure Switches
- Condensate Trap w/Blockaded Drain Switch
- Drain Valve
- System Sensor
- Outdoor Air Sensor
- Inlet & Outlet Temperature Sensors
- High-Voltage Terminal Strip
- Low-Voltage Terminal Strip
- Downstream Gas Test Cocks
- 50 psi ASME Relief Valve
- Temperature & Pressure Gauge

**Zero Clearances to Combustible Materials**

- 10-Year Limited Warranty (See Warranty for Details)
- 1-Year Warranty on Parts (See Warranty for Details)