



# Suggested Specifications

## BAXI LUNA

### Condensing Boiler

### Duo-Tec 1.33GA

#### **1.0 General Requirements:**

- 1.1 Provide and Install Boiler(s) in accordance with the plan drawings, written specifications and contract documents.
- 1.2 All work shall be performed in a neat workmanship like manner compliant with all local code authorities.

#### **2.0 Submittal**

- 2.1 Product Data: Submit manufacturer's technical product data, including rated capacities of selected model, weight, installation and start-up instructions, and furnished accessory information.
- 2.2 Shop Drawings: Submit manufacturer's assembly drawings indicating dimensions, connection locations, and clearance requirements.
- 2.3 Wiring Diagrams: Submit manufacturer's electrical requirements for the boiler including ladder type wiring diagrams for interlock and control wiring.

#### **3.0 Boiler Requirements**

- 3.1 Boiler shall provide hot water for heating zones, and have capability to sense temperature from indirect domestic hot water tank.
- 3.2 Boiler shall be certified for Direct Vent operation.
- 3.3 Boiler shall be a wall hung model.
- 3.4 Refer to all local codes and jurisdictional requirements for installation of field supplied anti-scald valve(s).

#### **4.0 Acceptable Manufacturers**

- 4.1 Equivalent units and manufacturers must meet all performance criteria for all fuel options, and will be considered upon prior approval.

#### **5.0 Certifications & Listings**

- 5.1 Boiler shall be certified by CSA, AHRI, NRCAN.
- 5.2 Registered with Massachusetts Board, National Board BPVI.
- 5.3 Boiler shall be constructed in accordance with the American Society of Mechanical Engineers (ASME)
- 5.4 Boiler shall have an ASME H stamp that is applied to the heat exchanger. Each heat exchanger shall be independently reviewed by an ASME authorized inspector.
- 5.4 The Boiler shall be equipped with a 30 psig relief valve.

#### **6.0 System Requirements**

- 6.1 Central heat hydronic system pressure shall be no more than 30 psig and no less than 7.25 psig.

#### **7.0 Construction**

- 7.1 Boiler heat exchanger shall be constructed of Iron-chromium stainless steel parallel tube, encased in a Noryl Resin housing.
- 7.2 Gas valve shall be a modulating valve capable of firing from:
  - 125,908 BTU input down to 21,838 BTU input in Heat mode (5.7:1 turn down)
- 7.3 Induced draft blower shall be variable speed and controlled by a PCB.
- 7.4 Burners shall be constructed of Iron-chromium stainless steel.



Baxi N.A. 2201 Dwyer Avenue, Utica, NY 13501  
Tel. 844 422 9462  
[www.baxiboilers.com](http://www.baxiboilers.com)

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- 7.5 Ignition system shall be direct spark with separate flame sensing rod.
- 7.6 Boiler shall include an automatic 3 way diverting valve to allow Domestic Hot Water Priority operation.
- 7.7 Boiler shall include domestic hot water legionella prevention function.
- 7.8 Boiler shall include an internal factory installed and wired Boiler Loop Pump.
- 7.9 Boiler shall include built in expansion tank.
- 7.10 Boiler shall include built in Low Water Cutoff via Pressure switch.
- 7.11 Boiler shall include factory supplied union connections with shutoff valves.

## **8.0 Control System**

- 8.1 Control system shall be PCB integral controller with an LCD digital display and user interface.
- 8.2 Control shall automatically recognize fuel type (Natural or LP gas), and self calibrating for optimum combustion and efficiency.
- 8.3 Control shall continuously monitor flame signal and automatically adjust the gas valve during normal operation for maximum efficiency.
- 8.4 Control will sense supply water temperature and adjust firing rate of the boiler to deliver amount of heat needed.
- 8.5 Control will sense and display supply water temperature and indicate by icon when boiler is in central heating or domestic water mode.
- 8.6 Control can accept an optional proprietary Outdoor Air sensor and have field adjustable reset curves.
- 8.7 Control displays error codes and diagnostic information.

## **9.0 Combustion Air And Flue Vent Exhaust**

- 9.1 The boiler shall be Direct Vent only, with materials compatible with those standards, and installed as per the manufacturer's written instruction, plan drawings and all applicable code authorities.
- 9.2 The flue gas exhaust shall connect directly to the boiler at the location labeled.

## **10.0 Electrical Connections**

- 10.1 Supply voltage 120 volts 60 HZ 12 amp minimum size circuit. Boiler shall have factory wired and installed cord with male plug end 3 feet long.
- 10.2 Boiler shall have Low voltage terminal strip with clearly marked connections.

## **11.0 Quality Assurance**

- 11.1 Factory testing - boiler shall be factory test fired.

## **12.0 Boiler Manuals**

- 12.1 The boiler shall be provided with a complete set of instructions as follows:
  - 12.1.1 Installation, Operation and Maintenance Manual (IOM) with Application Guide
  - 12.1.2 Repair Parts Manual
  - 12.1.3 User's Manual



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