The Imax Xtra range of condensing boilers is offered in six models with outputs from 80 to 280 kW suitable for floor standing application in either single or multiple applications.

**FEATURES & BENEFITS**

- Robust cast aluminium silicon alloy heat exchanger
- In-built commissioning and fault diagnostics
- Volt free contacts and BMS operation standard
- Meets Building Regulations (Part L2)
- Compact size - small footprint
- High 5:1 turndown
- Up to 107.5% net efficiency (fully condensing)
- Fits through standard doorways
- Conventional or room sealed flue options
- Direct weather compensation option
- NOx <40mg/kWh (Class 5) for maximum BREEAM points

**DIMENSIONS & CLEARANCES**

<table>
<thead>
<tr>
<th>BOILER</th>
<th>DIM A</th>
<th>DIM B</th>
<th>DIM C</th>
</tr>
</thead>
<tbody>
<tr>
<td>280</td>
<td>600</td>
<td>1150</td>
<td>1048</td>
</tr>
</tbody>
</table>

The following minimum clearances must be maintained for operation and servicing:

- **TOP:** 500mm
- **FRONT:** 600mm
- **SIDES:** LH 450mm | RH 150mm
- **REAR:** 700mm

idealcommercialboilers.com
## IMAX XTRA 280kW

### Technical Specifications

#### General
- **Dry Weight**: 233 KG
- **Boiler Dimensions**: 1150 (H) x 600 (W) x 1048 (D) mm
- **Boiler Clearances**:
  - Front: 600 mm
  - Left Side: 450 mm
  - Right Side: 150 mm
  - Rear: 700 mm
  - Top: 500 mm
- **Seasonal Efficiency**: 95.7%
- **Min/Max Gas pressure (Nat Gas)**: 15-20 mbar

#### Burner Pre Mix
- **Fuel**: Natural Gas (Type G20)
- **Fuel Consumption (Nat Gas)**: 28.2 m³/h
- **Flame Protection**: Ionisation
- **Ignition**: Spark
- **Boiler Output (Mean 70°C)**: 51.0-275.2 kW
- **Boiler Output (Mean 40°C)**: 55.9-290.9 kW
- **Boiler Input (Gross cv)**: 310.9 kW
- **Gas Inlet Size**: G1”
- **NOx Rating/emissions at 0% O₂**: 26 mg/kWh

#### Hydraulic Resistance
- **Hydraulic Resistance (11°C ΔT)**: 347 mbar
- **Hydraulic Resistance (20°C ΔT)**: 105 mbar
- **Nominal Flow Rate (11°C ΔT)**: 6.32 l/s
- **Nominal Flow Rate (20°C ΔT)**: 3.47 l/s
- **Min Flow Rate (20°C ΔT) (MAX MOD)**: 0.694 l/s
- **Min Flow Temperature**: 20 °C
- **Max Flow Temperature**: 90 °C
- **Min Working Pressure**: 0.3 bar
- **Max Working Pressure**: 6 bar
- **Max Static Head Of Water**: 61 metres
- **Condensate Connection**: 21.5 mm
- **High Limit Set Point**: 100 flow, 100 return 105 H/Ex
- **Flow & Return Size**: G2”
- **Water Content**: 27.2 litres

#### Flue/Air Inlet
- **Flue Size**: 200 mm
- **Flue Gas Volume**: 423.0 m³/h
- **Flue Gas Temperature 80/60°C**: 80°C
- **Max Flue Resistance**: 150 Pa

#### Electrical
- **Supply**: 230/240V 50Hz 1 Ph
- **Current (Max No Pump)**: 1.95 amp
- **Power Consumption**: 400 watt
- **Modulating Input**: V/DC 0-10V
- **Fuse Rating**: 5 amp
- **Controls Voltage**: V 24 or 240
- **Insulation Class**: IP20

#### Control Operation
- **On/Off 0-10V DC**: Yes
- **OpenTherm**: No
- **High Limit Protection**: Yes
- **Low Water Protection**: Yes
- **Volt Free Common Alarm**: Yes
- **Boiler Run Indication**: Yes

#### Optional Extras
- **Modulating Sequencer Control for controlling multiple boiler installations**: Yes
- **Programmable Room Thermostat**: Yes
- **Outside Sensor Kit**: Yes
- **Tank Sensor Kit**: Yes
- **Room Sensor Kit**: Yes
- **Sequencer DHW Sensor Kit**: Yes
- **Flow, Return and Gas Header Kit**: N/A
- **RS Air Duct Connector**: N/A
- **Horizontal Flue Connector**: N/A
- **Vertical Flue Connector**: N/A

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*5 year heat exchanger warranty subject to terms and conditions. Terms & conditions available at www.idealcommercialboilers.com/downloads.

2 year parts and labour warranty as standard.

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**GET A QUOTE**

**W**: IDEALCOMMERCIALBOILERS.COM  
**E**: commercial@idealboilers.com  
**T**: 0844 5436060
OVERVIEW
The boilers must be fully automatically controlled, floor standing, fanned, super-efficient condensing appliances utilising an aluminium silicon alloy heat exchanger and be suitable for connection to fully pumped open vented or sealed water systems.

CONTROLS
The condensing boilers must have connectivity for common types of BMS integration including 0-10v & volt free connections. Where no BMS is present a modulating sequencer must be available.
The boiler must be fully modulating with a 5:1 turndown ratio and include control features enabling set point adjustment, heating circuit control of one constant temperature and one DHW circuit or 2 constant temperature circuits, and safety lock out parameters including fault diagnosis for both boiler and external components such as sensors or pumps.
Boiler capabilities must include, with the use of external components, frost protection, weather or room compensation and system pump control.

FLUE
The condensing boilers must be suitable for use with a room sealed flue or open flue applications including C13, C33 and B23 classifications. The flue outlet and air inlet must be situated at the rear of the boiler.

HYDRAULIC
The condensing boiler must be suitable for connection to fully pumped open vented or sealed water systems. All hydraulic connections including flow return and condensate drain must be located on the rear of the boiler. Hydraulic connections must be uniform across the outputs available in the range to ensure ease of installation and maintenance in mixed output cascades.

The boiler must have a maximum operating pressure of 6 bar and be suitable for heating and indirect hot water systems.

DIMENSIONS
The condensing boiler must fit within maximum permitted floor space of 0.48m² (80 – 160kW models) or 0.63m² (200 – 280kW models).

MOUNTING / POSITIONING
The condensing boilers will be floor standing.

EFFICIENCY
The condensing boilers are capable of high seasonal efficiencies with a minimum requirement of 95.7% and low NOx emissions no greater than 35mg/kWH.

APPROVALS
The boilers must be tested and certified by Gastec to EN483 and EN677 for use with Natural Gas.
Boilers are certified to meet the requirements of the EC Gas Appliance Directive, Boiler Efficiency Directive, EMC and Low Voltage Directive.
The manufacturer must be ISO 9001 accredited.

SPECIFICATION
The boiler will be capable of flow rates for common systems using 11°C to 20°C temperature differentials.

SOURCING
The condensing boiler must be manufactured or finally assembled in the United Kingdom.

WARRANTY
The boiler must be available with a 2 year warranty.