IMAX XTRA EL
790kW

The Imax Xtra EL range of condensing boilers is available in 10 models with outputs from 320 to 1240kW. Suitable for floor standing applications in either single or multiple installations.

FEATURES & BENEFITS

- Simple control interface with large backlit display
- Volt free contacts
- 0-10V BMS operation standard
- Robust aluminium silicon alloy heat exchanger
- Suitable for single or multiple installations
- Up to 109.8% part load at 30% output
- NOx <40mg/kWh
- Natural Gas
- Building Regulation Part L2 compliant

DIMENSIONS & CLEARANCES

<table>
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<tr>
<th>BOILER</th>
<th>DIM A</th>
<th>DIM B</th>
<th>DIM C</th>
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<td>790</td>
<td>1674</td>
<td>1567</td>
<td>1685</td>
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The following minimum clearances must be maintained for operation and servicing:

- TOP: 700mm
- RIGHT SIDE: 700mm
- LEFT SIDE: 700mm
- REAR: 1000mm

* From back of boiler

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## TECHNICAL SPECIFICATIONS

### IMAX XTRA EL 790kW

| Dry Weight | KG | 952 |
| Boiler Dimensions | mm | 1567 (H) x 1674 (W) x 1685 (D) |
| Boiler Clearances | mm | Front: 700, Left Side: 700, Right Side: 700, Top: 700, Rear: 1000 |
| Seasonal Efficiency (Building Regs L2) | % | 96.8 |
| Min/Max Gas pressure (Nat Gas) | mbar | 15-20 |
| Fuel (Type G20) | Natural Gas |
| Fuel Consumption (Nat Gas) | m³/h | 72 |
| Flame Protection | Ionisation |
| Ignition | Spark |
| Boiler Output (Mean 70°C) | kW | 145.2-736.6 |
| Boiler Output (Mean 40°C) | kW | 161-799 |
| Boiler Input (Gross cv) | kW | 835 |
| Gas Inlet Size | 2 x G2” |
| NOx Rating/emissions at 0% O₂ | mg/kWh | Class 6 (38.6) |

### FLUE/AIR INLET

| Flue Size | mm | 300 |
| Flue Gas Volume | m³/h | 1166.6 |
| Min-Max Flue Gas Temperature 80/60 | °C | 50-63 |
| Max Flue Resistance | Pa | 100 |
| Electrical Supply | 230/240V 50Hz 1 Ph |
| Current (Max No Pump) | amp | 2 x 2.57 |
| Power Consumption | watt | 1184 |
| Modulating Input | V/dc | 0-10V |
| Controls Voltage | V | 24 or 240 |
| Insulation Class | IP | IP20 |

### ELECTRICAL

- **On/Off 0-10V DC**: Yes
- **OpenTherm**: Yes
- **High Limit Protection**: Yes
- **Low Water Protection**: Yes
- **Volt Free Common Alarm**: Yes
- **Boiler Run Indication**: Yes

### OPTIONAL EXTRAS

- Modulating Sequencer Kit, including DHW Tank Kit, Plant Room Sensor Kit, 6 Zone Expansion Kit
- Programmable Room Thermostat Kits
- Outside Sensor Kit
- DHW Tank Sensor Kit
- Safety Interlock Kit
- BACNet Gateway Kit
- LONWorks Gateway Kit
- MODBus Gateway Kit
- Remote Access Kit
- Sealed System Services Flow Manifold Kit
- Inlet Air Filter Kit
- Condensate Pump Kit
- Room Sealed Air Duct Kit
- Header Kit (flow/return)
- Header Kit (gas)
- Header Kit (air)

### OTHER

- *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.

**GET A QUOTE**

**W:** IDEALCOMMERCIALBOILERS.COM
**E:** commercial@idealboilers.com
**T:** 0844 5436060
IMAX XTRA EL 790kW
SUGGESTED ENGINEERING SPECIFICATION

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 all common types of BMS integration including 0-10v, volt free and OpenTherm connections. Additional modules may be used for BACnet, LONWorks and MODBus gateways. 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.

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 1.41m² (320 – 620kW models) or 2.82m² (715 – 1240kW 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 96.8% and low NOx emissions no greater than 38.7mg/kWH.

APPROVALS
The boilers must be tested and certified by BSI to EN 15502 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.