

IMAX XTRA EL

620kW





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

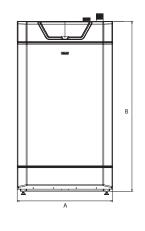
- Simple control interface with large backlit display
- Volt free contacts
- 0-10V BMS operation standard
- Robust aluminium silicon alloy heat exchanger
- Suitable for single or multiple installations
- Up to 109.8% part load at 30% output
- NOx <40mg/kWh
- Natural Gas
- Building Regulation Part L2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

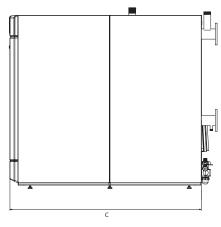
DIMENSIONS & CLEARANCES

BOILER	DIM A	DIM B	DIM C
620	835	1485	1685

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







IMAX XTRA EL 620kW

TECHNICAL SPECIFICATIONS



GENERAL			FLUE/AIR INLET			
Dry Weight	KG	528	Flue Size	mm	250	
Boiler Dimensions	mm	1485 (H) x 835 (W)	Flue Gas Volume	m³/h	914.8	
			Min-Max Flue Gas Temperature 80/60	°C	50-63	
Boiler Clearances	mm	x 1685 (D) Front: 700 Left Side: 150 Right Side: 700 Top: 700 Rear: 150**	Max Flue Resistance	Pa	100	
			ELECTRICAL			
			Electrical Supply		230/240V 50Hz 1 Ph	
Seasonal Efficiency (Building Regs L2)	%	97	Current (Max No Pump)	amp	3.35	
Min/Max Gas pressure (Nat Gas)	mbar	15-20	Power Consumption	watt	770	
			Modulating Input	V/dc	0-10V	
BURNER PRE MIX			Fuse Rating	amp	7	
Fuel	(Type G20)	Natural Gas	Controls Voltage	V	24 or 240	
Fuel Consumption (Nat Gas)	m³/h	62.2	Insulation Class IP		IP20	
Flame Protection		Ionisation	CONTROL OPERATION			
Ignition		Spark				
Boiler Output (Mean 70°C)	kW	114.9-578.2	On/Off 0-10V DC		Yes	
Boiler Output (Mean 40°C)	kW	127.6-628.9	OpenTherm		Yes	
Boiler Input (Gross cv)	kW	654.8	High Limit Protection		Yes	
Gas Inlet Size		G2"	Low Water Protection		Yes	
NOx Rating/emissions at 0% O ₂	mg/kWh	Class 6 (38)	Volt Free Common Alarm		Yes	
HYDRAULICS			Boiler Run Indication Yes		Yes	
Hydraulic Resistance (11°C ΔT)	mbar	320	OPTIONAL EXTRAS			
			Modulating Sequencer Kit, including DHW Tank Kit, Yes		Yes	
Hydraulic Resistance (20°C ΔT)	mbar	92	Plant Room Sensor Kit, 6 Zone Expansion Kit			
Nominal Flow Rate (11°C ΔT)	I/s	13.5	Programmable Room Thermostat Kits		Yes	
Nominal Flow Rate (20°C Δ T)	I/s	7.4	Outside Sensor Kit		Yes	
Min Flow Rate (20°C ΔT) (MAX MOD)	l/s °C	1.48	DHW Tank Sensor Kit		Yes	
Min Flow Temperature		30	Safety Interlock Kit		Yes	
Max Flow Temperature	°C	90	BACNet Gateway Kit		Yes	
Min Working Pressure	bar	1	LONWorks Gateway Kit		Yes	
Max Working Pressure	bar	6	MODBus Gateway Kit		Yes	
Max Static Head Of Water	metres	61	Remote Access Kit		Yes	
Condensate Connection	mm	21.5	Pump Kits Yes		Yes	
High Limit Set Point	°C	100 flow, 100 return 105 H/Ex	Sealed System Services Flow Manifold Kit		Yes	
Flow & Return Size		G3"	Inlet Air Filter Kit Yes		Yes	
Water Content	litres	75.3	Condensate Pump Kit		Yes	
			Room Sealed Air Duct Kit		Yes	











*2 year warranty subject to Terms and Conditions. 2 years parts and labour warranty available subject to being commissioned by Ideal Boilers.

** This clearance dimension applies independently of the installed flue system.

GET A QUOTE

W: IDEALCOMMERCIALBOILERS.COM E: commercial@idealboilers.com

T: 0844 5436060

IMAX XTRA EL 620kW

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.

