



the latest in stainless  
steel condensing  
technology



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INSPIREDEFFICIENCY



**ETHOS 350 & 550**  
FLOOR STANDING  
CONDENSING BOILER



# ETHOS 350 & 550

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**Drawing on the success of the Ethos wall mounted condensing boilers, Mikrofill now introduce the Ethos 350 and 550.**

Designed and manufactured in the UK these floor standing boilers offer the latest in stainless steel condensing technology.

The 350 and 550kW boilers incorporate an advanced controls philosophy well in excess of industry standards.

The endeavour of our research and development team has resulted in a further demonstration of Mikrofill's total commitment to the environment.



an advanced controls philosophy





# DUALTECH™ SYSTEM

**Introducing the Dualtech™ System, a breakthrough in commercial boiler design.**

**Dualtech™** features two independent premix burners to each condensing boiler. This system immediately doubles the load matching capability of each boiler thus enabling an unsurpassed modulation of  $10 > 1$ .

A single boiler incorporating a two thirds standby of a buildings demand clearly decreases capital cost as well as installation time.



**unsurpassed modulation of  $10 > 1$**





# FEATURES & BENEFITS

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## FEATURES

- Stainless steel construction
- Dualtech™ system
- Individual outputs of 350 & 550 kW
- Fully integrated time base control
- Intelligent cascade system as standard
- Ultra low noise levels

## BENEFITS

- Installation options allowing 35 kW - 4.4 MW
- 10 > 1 turndown ratio
- Efficiency in excess of 95%
- Class 5 Nox
- Exact load matching
- Compact footprint
- Suitable for modular installation

# TECHNICAL DATA

General			
Model		Ethos 350	Ethos 550
Dimensions (HxWxD)	mm	1400x760x1200	1400x760x1500
Weight (Empty)	kg	400	450
Flow/return connections		DN50 PN16 Flange	DN65 PN16 Flange
Gas connection	BSP	1 1/4"	1 1/2"
Flue connection	mm	150	180
Turn down ratio		10:1	10:1
Electrical supply	v	230	230

Heating Performance			
Nominal heat output at 80/60 °C	kW	32.9-311.5	44.1-539
Nominal heat output at 50/30 °C	kW	40-378	48.6-594
Maximum gas consumption (Nat Gas)	G20	m <sup>3</sup> /hr	34.8
	(LPG) G31	m <sup>3</sup> /hr	13.6

Technical Data			
Flue gas dew point	°C	52	52
Flue temperature at 80/60 °C	°C	75	75
Permitted maximum resistance of flue system*	Pa	200	250
Condensation pH value		4-5	4-5
Maximum CH flow temperature	°C	90	90
CH water pressure (min/max)	Bar	0.5-6	0.5-6
Minimum/maximum gas pressure (Nat Gas) G20	mbar	17-20	17-20
	(LPG) G31	mbar	30-50

Environmental Data			
Nox Class		5	5
Maximum efficiency (nett non condensing)	%	96.53	98
Maximum efficiency (nett condensing)	%	109.2	108
Seasonal efficiency	%	96.2	95.6

\* With this resistance value, the heat output will remain within the specifications indicated on the dataplate; if the resistance is higher, the heat output will drop.

# DIMENSIONS

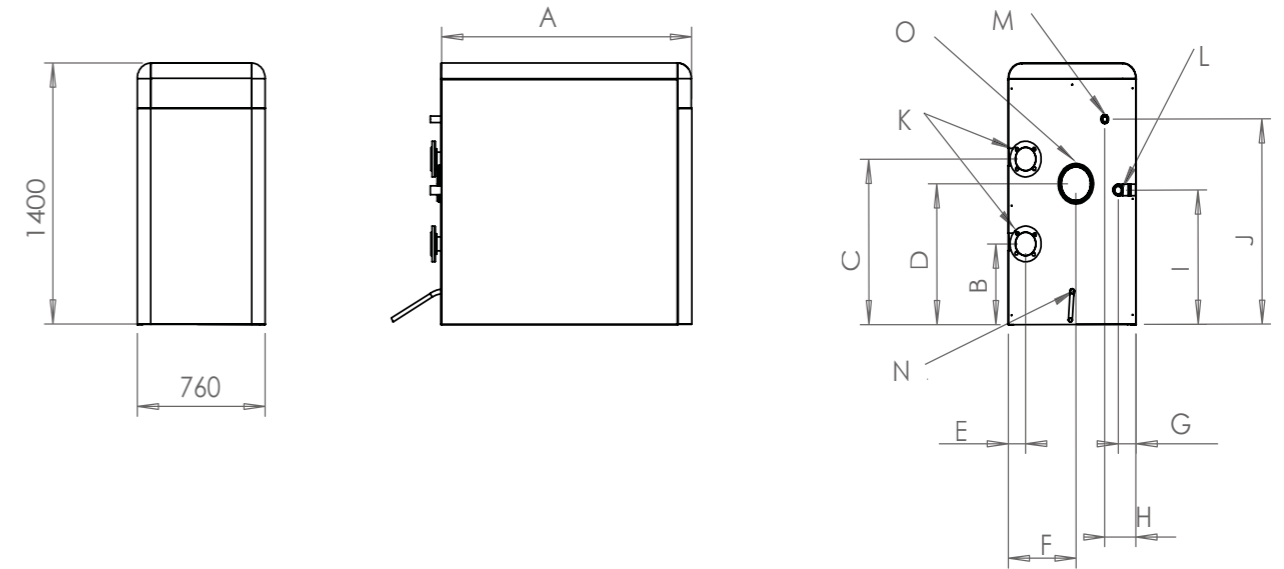
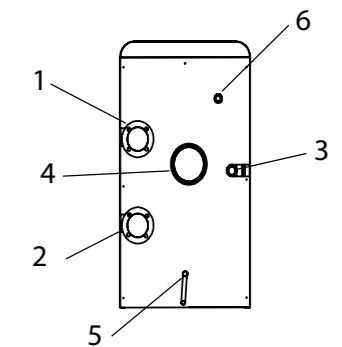


Fig. 1 Dimensions of the Ethos

Type		Ethos 350	Ethos 550
A	mm	1200	1500
B	mm	420	420
C	mm	865	865
D	mm	730	730
E	mm	100	100
F	mm	400	400
G	mm	100	100
H	mm	180	180
I	mm	700	700
J	mm	1070	1070
K		2"	2 1/2"
L		1 1/4"	1 1/2"
M		1"	1"
N	mm	20	20
O	mm	150	180

1	Flow Connection
2	Return Connection
3	Gas Connection
4	Flue Gas Connection
5	Condensate Connection
6	Safety Valve Connection



(We reserve the right to make changes without prior notification)  
The data may deviate slightly due to fabrication tolerances.



**Renowned for developing innovative products, the company has built its success on quality, reliability and outstanding customer service.**

As an established market leader and as one of the fastest growing companies in this sector, Mikrofill now manufactures over 80% of its portfolio in the UK.

**The company's rapidly expanding range of products includes :-**

The market leading patented Mikrofill EFD that fills a heating or chilled circuit from empty, prevents backflow and pressure manages the system.

The Ethos wall mounted condensing boiler range, with individual outputs of 70, 90, 110 and 130 kilowatts. Designed and manufactured in the UK, each boiler utilises a stainless steel heat exchanger with a 7:1 turndown ratio, integral shunt pump and onboard time control.

The Rapide Extreme, a domestic hot water generator that combines the advantages of both an instantaneous hot water heater and a storage system, creating perfect harmony between a boiler and a hot water cylinder.

In addition, Mikrofill also manufacture and supply a comprehensive range of ancillaries to suit, from flue systems to expansion vessels.



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