



ECO 10 - ECO 70



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ECO light oil burners

ECO: perfect aerodynamics

Thanks to the constant research carried out by the Lamborghini laboratories it has been possible to design a light oil burner which in itself combines the most innovative principles of aerodynamics. This research has enabled Lamborghini to produce ECO with the following characteristics:

- Ventilation stabilised with a fan delivery/pressure curve which guarantees a pressure reserve especially beneficial at the starting up stage.
- Uniformity of air distribution which ensures a reduction in excess air for high combustion efficiency.
- Form and precision of performance of the head with low CO and NOx emission in combustion, protecting the environment.
- Adjustable combustion head: adjustment can be carried out with the burner on simply by turning a screw.
- High-powered fan that ensures a perfect burner operation even in the presence of high backpressure in the combustion chamber.

Maximum safety and reliability

- Only components of the highest quality are used.
- Particular attention is paid to its manufacture with the strictest of quality controls.
- All the ECO burners are CE certified.

Design

Special study and attention has also been given to the look and dimension of these burners:

- The dimensions observe the connection requirements of the burner, also with the small boilers within the external casing.
- The shape and colour have been chosen because the appliance is designed to have an appeal which is adaptable to all types of boiler.



Lamborghini
CALORECLIMA

Company certified UNI EN ISO 9001

The range

1 ignition flame

- **ECO 10**
Max. heat output: 124,5 kW
- **ECO 15**
Max. heat output: 175,5 kW
- **ECO 20**
Max. heat output: 249 kW
- **ECO 22**
Max. heat output: 261 kW
- **ECO 30**
Max. heat output: 356 kW

ECO 10
ECO 15
ECO 15/2
ECO 20
ECO 20/2



2 ignition flames

- **ECO 15/2**
Max. heat output: 175,5 kW
- **ECO 20/2**
Max. heat output: 237,2 kW
- **ECO 22/2**
Max. heat output: 272,8 kW
- **ECO 30/2**
Max. heat output: 356 kW
- **ECO 40/2**
Max. heat output: 474 kW
- **ECO 50/2**
Max. heat output: 585 kW
- **ECO 70/2**
Max. heat output: 776 kW

ECO 22
ECO 22/2



ECO 30
ECO 30/2
ECO 40/2



ECO 50/2
ECO 70/2



Universal flange for rapid installation

ECO burners are equipped with a universally-bored sliding flange that facilitates installation of the burner onto any boiler type.

These flanges are independent of the burner body and so allow for rapid maintenance. Electrical connection proves to be a simple task as a 7-pin plug is supplied for quick insertion into the burner socket.

For convenient maintenance of the ECO burners the main electrical components are connected by easy-to-fit plugs and each component has a different type in order to avoid mistakes in connection.

Easy maintenance

Removal of the casing gives one access to the main burner components.

The component plate can be separated from the burner body and hung up in the servicing position. It is possible therefore to carry out maintenance operations without having to separate the burner from the boiler.



ECO 22/2 burner



Total inspection

Air shutter with automatic closing

This characteristic of the ECO models slows down the cooling process of the boiler when the burner is turned off, limiting the thermal shock as a result. An effective energy saving is obtained from this feature.

Air adjustment

On the models of the ECO series it is possible to adjust the amount of air entering the burner:

- 1 stage burners.
Adjusting the air shutter opening can be carried out externally without removing the burner casing.
- 2-stage burners.
The air shutter is actuated by an electric servo control. Air adjustment for the first and second stage is carried out on the appropriate servo control cams.

There is a brief delay for the second stage starting with regard to the initial air opening. This delay is adjustable with a suitable cam on the servo control, for adjustment to the type of installation.



Air adjustment
ECO 22 model



Air adjustment
ECO 10-15-20-30 models

Combustion head adjustment

This may be carried out with the burner on. For an optimum combustion the position of the diffuser can be varied in regard to the trunk/tapered section of the combustion head by adjusting the appropriate screw.



Air adjustment
2-stage ECO models

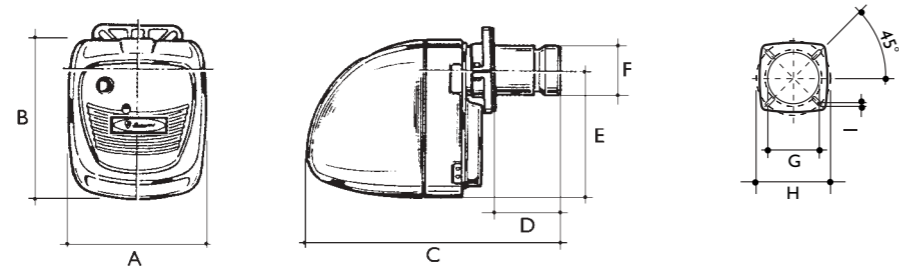


Combustion head adjustment
1-stage ECO models



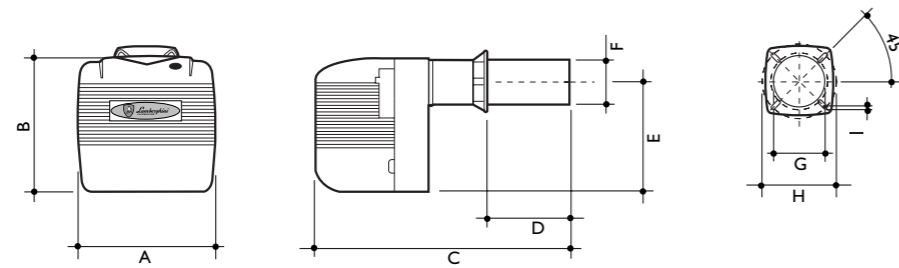
Combustion head adjustment
2-stage ECO models

Dimensions



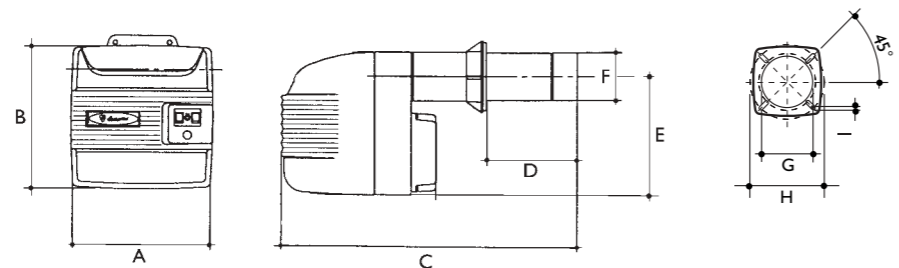
ECO 10-15-15/2-20-20/2 burners

	A	B	C	D		E	ØF	ØG	ØH		I
				min.	max.				min.	max.	
ECO 10	230	285	483	60	125	232	114	120	110	150	M 8
ECO 15	275	340	550	80	150	274	114	120	110	150	M 8
ECO 15/2	275	340	685	80	150	274	114	120	110	150	M 8
ECO 20	275	340	535	60	135	274	114	120	110	150	M 8
ECO 20/2	275	340	700	60	300	274	114	120	110	150	M 8



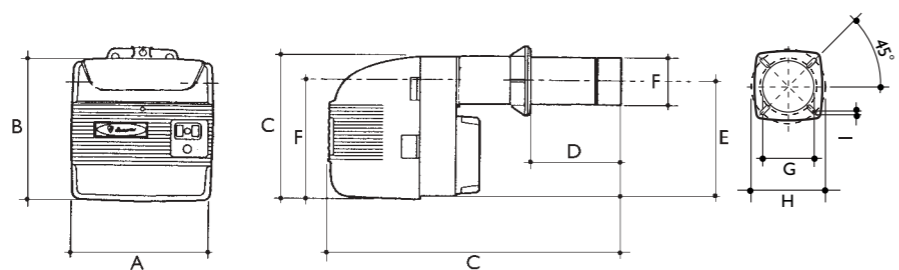
ECO 22-22/2 burners

	A	B	C	D		E	ØF	ØG	ØH		I
				min.	max.				min.	max.	
ECO 22	360	350	576	60	200	275	120	135	172	225	M 10
ECO 22/2	360	350	576	60	300	275	120	135	172	225	M 10



ECO 30 - 30/2 - 40/2 burners

	A	B	C	D		E	ØF	ØG	ØH		I
				min.	max.				min.	max.	
ECO 30 - 30/2	420	423	770	70	320	350	135	150	172	225	M 10
ECO 40/2	420	423	790	120	310	350	148	160	172	225	M 10



ECO 50/2 - 70/2 burners

	A	B	C	D		E	ØF	ØG	ØH		I
				min.	max.				min.	max.	
ECO 50/2	420	490	1040	130	380	392	140	150	172	225	M 10
ECO 70/2	420	490	1080	150	380	392	170	180	160	200	M 14

Technical data

ECO		10	15	15/2	20	20/2	22	22/2	30	30/2	40/2	50/2	70/2				
Heat input	kg/h	5	7	7	11	10	11,5	10	16	12	22,5	14,9	16,6				
	kW	10,5	14,8	14,8	21	20	22	23	30	30	40	49,3	65,4				
Heat output	kW	59,3	83	83	128	118,6	136,4	118,6	190	142,3	266,9	177	197				
	kcal/h	124,5	175,5	175,5	249	237,2	261	272,8	356	356	474	585	776				
	kcal/h	51.000	71.400	71.400	112.000	102.000	117.300	102.000	163.000	122.400	229.500	152.220	169.420				
	kcal/h	107.100	150.960	150.960	214.000	204.000	224.400	234.600	306.000	306.000	408.000	503.100	667.360				
Total absorbed power	W	300	500	500	520	520	600	600	750	750	950	1.500	1.900				
Motor 2800 rpm	W	90	185	185	185	185	250	250	370	370	370	1.100	1.500				
Weight	kg	13,5	14,5	15	14,5	15	20	21	26,5	27,2	28,33	55	59				
Packaging	mm.	335x280x370		640x335x400		760x360x440		640x335x400		760x360x440		640x390x380		840x445x440		520x700x1200	
Power supply	230V - 50 Hz																
Fuel	Light oil - Max. viscosity at 20°C: 1.5°E = 6cSt = 41 sec. RI																

PRESSURE CURVES

