

LOGICA

OIL AND GAS BOILERS

Technical Data

Model		LGC3	LGC4	LGC5	LGC6	LGC7	LGC8
Efficiency class (Dir. Rend. 92/42CEE)		★	★★	★★	★★	★★	★★
Rated output	MAX. Pn = kW	24.0	33.0	43.6	53.0	63.0	74.5
	MIN. Pn = kW	20.0	28.0	36.0	46.0	55.0	64.0
Nominal thermal capacity	MAX. Qn = kW	27.0	36.5	47.9	57.9	68.4	80.5
Efficiency at nominal load	%	88.8	90.5	90.9	91.4	92.0	92.5
Efficiency at 30% reduced load	%	89.9	91.4	91.7	92.0	92.5	92.8
Outgoing flue gas temperature (20°C)	°C	215	190	187	184	175	170
Flue gas flow rate	G20 gas kg/h	49.4	65.7	85.6	102.6	120.6	141.2
	Diesel fuel kg/h	40.0	53.2	69.3	83.1	97.7	114.5
Load loss on water side ($\Delta t = 20^\circ\text{C}$)	Pa	4800	5600	6000	7100	10000	11200
Minimum water flow rate	l/h	680	950	1230	1520	1800	2150
Dispersion through the casing ($\Delta t = 50^\circ\text{C}$)	Pd = %	1.80	1.40	1.10	0.80	0.70	0.50
Heat loss at stack with burner on	Pf = %	9.40	8.10	8.00	7.80	7.30	7.00
Heat loss at stack with burner on	Pfbs = %	0.1					
Load loss combustion circuit	$\Delta p_f =$ Pa	8	22	30	32	45	60
Number of elements	N.	3	4	5	6	7	8
Boiler weight	kg	139	161	188	215	242	269
Width of boiler	mm	381	487	593	699	805	911
Width of combustion chamber	mm	238	344	450	556	662	768
Volume of combustion chamber	dm ³	14.91	22.37	29.83	37.29	44.75	52.21
Volume on flue gas side	dm ³	21.83	31.82	41.72	51.66	61.50	71.52
Water capacity	l	14.6	18.2	21.8	25.4	29.0	32.6
Burner fixing diameter	mm	150					
Flue gas outlet diameter	mm	150/153					
Operating max. pressure	Pms = bar	4					
Boiler setting range	°C	50° - 90°					
Water intake/outlet fittings		1" 1/4					
Fuel		G20 gas or fuel oil 1.4° E - 20°C (Pci 10210 kcal/kg)					
Power supply		2N~230V - 50Hz					

★★ The EC conformity certificate (trademark CE) issued by CETIAT/AFNOR laboratories in Lyons is a guarantee that efficiency is at least 3 percentage points higher than the minimum allowed by EC standards.



EUROTECH COMBUSTIONS

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logica®

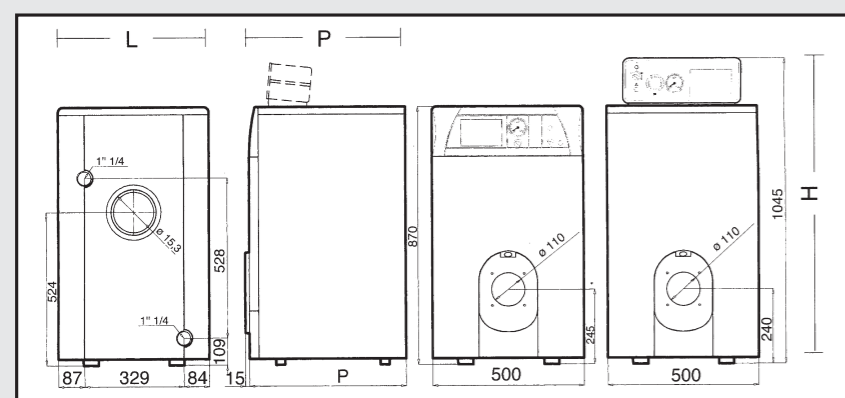
A range of seven highly efficient type approved boilers (ranging outputs from 20kW to 74kW). All fully CE approved for use with oil or blown gas burners. Logica boilers are supplied with an integral control panel containing control and limit thermostat, on/off switch, and water temperature thermometer .

The high quality steel casings have a specific clip-on design for ease of fixing and removal.

The cast iron body is a three pass design which is particularly sturdy and the sections are pulled together on tie rods. They are assembled on two steel guides for ease of manoeuvre within the plant room.

Dimensions

Model	L mm	H mm	P mm	Ø nominal bore	
				Flow	Return
LOGICA 3	500	870	381	1" 1/4	1" 1/4
LOGICA 4	500	870	487	1" 1/4	1" 1/4
LOGICA 5	500	870	593	1" 1/4	1" 1/4
LOGICA 6	500	1045	699	1" 1/4	1" 1/4
LOGICA 7	500	1045	805	1" 1/4	1" 1/4
LOGICA 8	500	1045	911	1" 1/4	1" 1/4

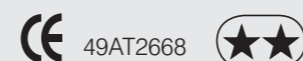


The main features are very high efficiency, low nitrogen oxide emissions, easy to service and long lasting.

Technical features

A slightly oval shaped combustion chamber allows full flame development and extremely high heat transfer with low heat exchanger surface temperatures.

A high water content heat exchanger, which has a flueway design to ensure quick passage of the flue gasses and significantly reduces Nitrogen Oxide production.



1. Close up of control panel for boilers mod. 3, 4 and 5 with prog. thermoregulator (optional)



2. Close up of control panel for boilers mod. 6, 7 and 8



3. Boiler body

Each section is individually tested to a pressure of 27 bar and the assembled body is retested to 8 bar.

Burner door and flueways door

The hinged doors can be easily changed for right or left hand opening to suit site conditions.

Insulation

A thick mineral wool jacket is provided to protect the boiler casings.

Electric control panel

The electric control panel holds the following:

- selector switch
- power on light

- regulation thermostat
- safety thermostat with manual reset
- thermometer

The wiring complies with the Directive CEM 89/336/EC and low voltage Directive 73/23 EC.

Possibility of installing a thermoregulator and a kit for connection to a water heater.

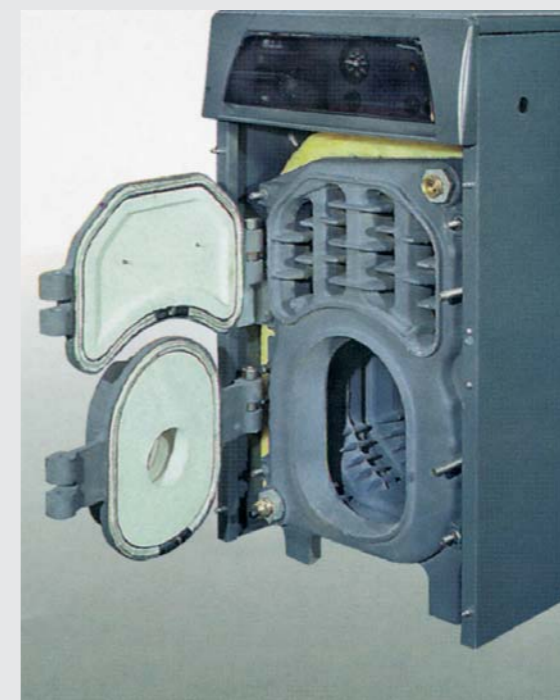
Fuel and burner

The boiler is approved for operating with any type of gas or fuel oil burner that is EC approved.

Packaging

The boiler is supplied in three units.

- Boiler body complete with accessories and instructions
- Boiler casings in cardboard packaging.
- Control panel in cardboard packaging.



4. Close up of the doors



5. Cast iron turbo-fan to optimise efficiency for model 3, 4 and 5



6. Easy cleaning thanks to hinged door