

## THE SMART HEAT





#### CONTROL AND OPTIONAL REMOTE MANAGEMENT WITH ETERM™

## **Generate heat with maximum efficiency**

Thanks to the **eterm™** boiler control panels, burner operation is optimised according to the temperatures required in the various circuits. The control equipment constantly assesses the setpoint temperature required for all the associated circuits, whether they are connected to the equipment itself or to other equipment on the same bus network.

**eterm**<sup>™</sup> can minimize losses by continuously monitoring the actual heat requirement for the utility and by acting in real time on the generation and distribution of heat, adjusting the temperatures and flow according to the actual needs, controlling the boiler pumps, mixing valves and flow pumps to the distribution columns.

**eterm**<sup>™</sup> allows control and remote management of the entire system via the modem option and access from the **www.eterm.it** portal.



## IT STRENGTHEN IT'S POWER

The CODEX condensing boiler is specifically designed to combine maximum performance in terms of energy efficiency and reliability. The three smoke circuit structure guarantees a high durability and meet the more restrictive environmental regulations.

The suitably corrugated exchange plates increase the contact surface

between water and combustion fumes, optimising the heat recovery and increasing the boiler's efficiency. The very high contained water volume makes this boiler extremely versatile, suitable for any type of plant.

The particularly compact structure makes it ideal for installation in both new central heating plants and in the requalification of existing central heating plants. Codex is the most powerful cylinder block condensing boiler on the market. The power increase was reached through cutting edge technical solutions obtained from the decennial experience of ICI Caldaie in the construction of medium and high power boilers.





## **BENEFITS**

### • The most powerful and compact on the market

The meticulous design and the thermodynamic study were developed to optimise the arrangement of the exchange surfaces, in order to maximise power in reduced dimensions.

## Maximum operating flexibility

Thanks to the very high water content and thermal inertia, CODEX is suitable for any plant solution, even in the most demanding operating conditions.

#### Twin water return

The construction type of the generator provides two connections to differentiate the high and low temperature returns, allowing optimal stratification to fully exploit the smoke condensation.

### Quality materials

All parts in contact with the smoke are made of AISI 316 Ti stainless steel which, for their physical and mechanical features, are highly resistant to corrosion caused by acid condensation and it is the best building steel for condensation boilers.

## • Fox shape corrugated furnace

To increase the turbulence of the combustion products, the exchange surface and the mechanical strength, the CODEX furnace is specifically corrugated through a special and innovative production process obtained through many years of experience in the construction of industrial boilers.

### • Respect for the environment

The particular smoke path with three smoke circuits, and the large size of the furnace greatly reduce the polluting emissions (NOx), significantly affected by the temperature of the flame and by its time inside the furnace.



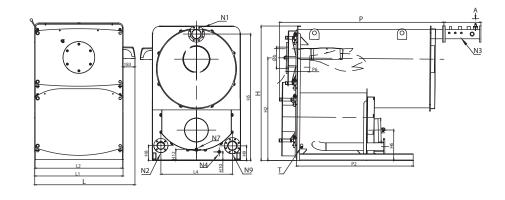


## **MODELS AND POWER**

# **CODEX**

Flow thermal 1000 ÷ 1600 kW

Design pressure 5 bar



MODEL	Н	H2	Н5	Н6	Н8	Н9	H10	H12	L	L1	L2	L4	P	P2	P6	Øb	Øc	N1	N2	N1/N2	N4	N7	N9
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	DN/in	DN/in	PN	DN/in	DN/in	DN/in
CODEX 1000	2020	1522	1880	453	202	202	62	85	1493	1313	1298	1060	2443	1732	250-300	280	350	125	100	6	3/4"	1"	125
CODEX 1200	2020	1522	1880	453	202	202	62	85	1493	1313	1298	1060	2443	1732	250-300	280	350	125	100	6	3/4"	1″	125
CODEX 1400	2165	1610	2022	440	205	205	62	81	1578	1395	1378	1165	2437	1725	250-300	320	400	125	100	6	3/4"	1"	125
CODEX 1600	2165	1610	2022	440	205	205	62	81	1578	1395	1378	1165	2437	1725	250-300	320	400	125	100	6	3/4"	1"	125

MODEL	Effective capacity Temp. medium 70°C	Effective capacity Temp. medium 50°/30°C	Flow thermal	100% Efficiency (ref C.O.P.) Temp. medium 70°C	100% Efficiency (ref C.O.P.) Temp. medium 50°/30°C	30% Efficiency (ref C.O.P.) Temp. medium 50°/30°C	Fuel gas pressure drop	Hydraulic pressure drop Dt=12°C	Total volume H <sub>2</sub> O	Total weight	
	kW	kW	kW	%	%	%	mbar	mbar	1	kg	
CODEX 1000	914	1000	930,0	98,3	107,5	108,5	4,2	34	1900	1776	
CODEX 1200	1.097	1200	1116,0	98,3	107,5	108,5	6,2	48	1900	1776	
CODEX 1400	1.280	1400	1302,0	98,3	107,5	108,5	8,3	66	1828	2120	
CODEX 1600	1.463	1600	1488,0	98,3	107,5	108,5	10,8	86	1828	2120	

