



ecovapor

How far are you **ready to go?**





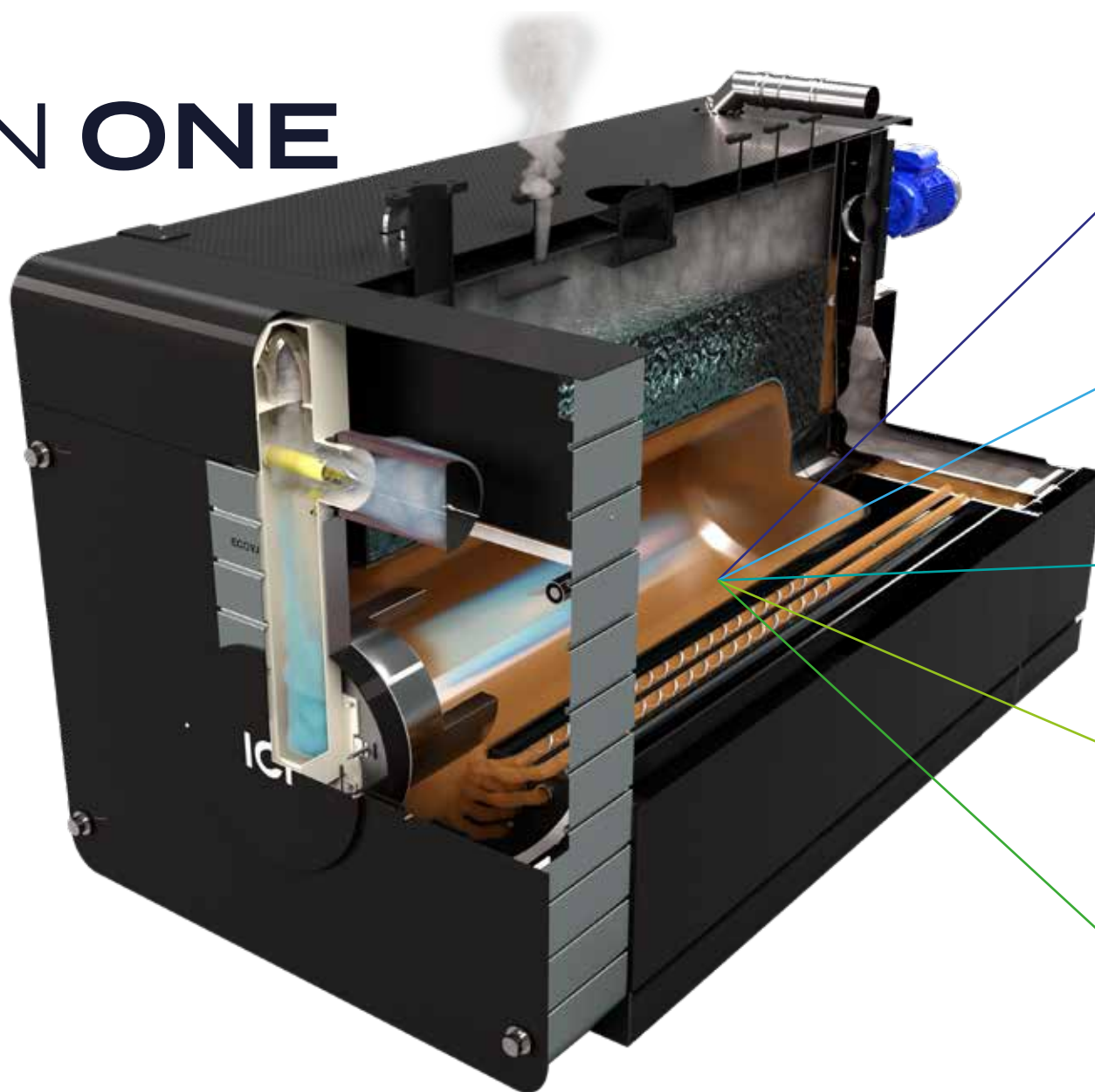
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Based on the experience, technological innovation and passion of ICI Caldaie, Ecovapor is the revolutionary range of intelligent systems for steam production, the confluence of three research areas (combustion, heat exchange and a predictive digital platform) merged into one system. Ecovapor optimises the process of steam production as a source of thermal energy in an economical, efficient, intelligent, safe and environmentally friendly manner. Developed as part of a project supported by the EU, Ecovapor is particularly suited for industrial applications with high modulation variability respecting the strictest NOx atmospheric emission limits and is able to communicate with other systems.



www.ecovapor.net

5 IN ONE



Efficiency

Not just combustion efficiency: modulation ratio, inverter on the motors, lower thermal losses and load adaptation all contribute to a significant decrease in the system's consumption of electricity and fuel compared to a traditional boiler.

Emissions

The innovative vector flame and vacuum combustion system completely integrated into the structure keeps NOx and noise emissions below the most restrictive international legal limits.

Safety

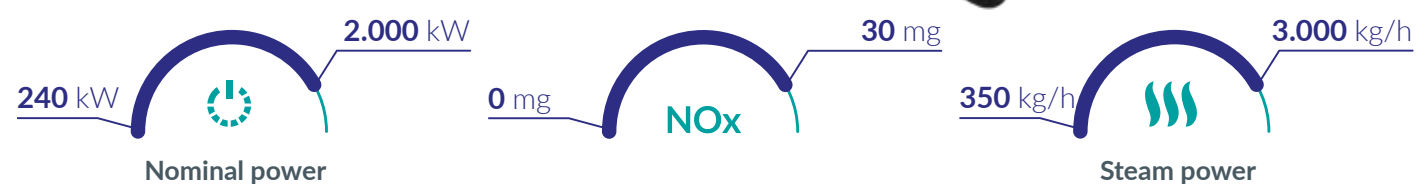
Fuel and combustion air are drawn into the combustion chamber instead of being pushed. No risk of hot flue gas leaking into work environments, and a complete system designed and certified as a whole.

Integration and simplicity

The starting point for innovation. Are all the steam boiler components really needed or are they the result of compromises necessary to optimise and standardise the production of independent components? Moving parts and complex electronic logics have been replaced by fixed parts and smart yet simple logics.

Connectivity

Today steam production can no longer be done with a simple boiler. Integration with the production process, predictive intelligence, self-learning: these are new frontiers of development that can be explored with ECOVAPOR.



Is anything missing?

The burner is fully incorporated in the boiler; a lightweight solution from the point of view of transport, dimensions, installation, commissioning (since it is pre-calibrated) and maintenance.



-20%

ELECTRICAL
CONSUMPTION



-15%

FUEL
CONSUMPTION



30 mg / kWh

NOx
EMISSIONS



1 VS 275

START-UPS



-30%

DIMENSIONS

More compact. **More powerful.**

An innovative steam production system that adapts autonomously to the thermal profiles of the utilities, optimising energy consumption and respecting the strictest NOx emission limits.



ECOVAPOR



ICI Caldaie S.p.A.

Via G. Pascoli 38 - 37059
Campagnola di Zevio (Verona) Italy
Tel. +39 045 8738511
Fax +39 045 8731148
icialdaie.com