



ecoFOREST

biomasa - bomba de calor - solar

ECOFOREST PRESENTATION

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estufas | calderas | pellets | geotermia



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BIOECOFOREST

**VAPORMATRA
(1959)**

Supplier of components
for heating and air
conditioning



**BIOMASA
ECOFORESTAL
(1996)**

Manufacturer of pellet
stoves and boilers



**ECOFOREST
GEOTERMIA
(2011)**

Heat pump
manufacturer



2 Productions plants

Manufacturer of pellet stoves and boilers, heat pumps and solar hybridization systems



New factory



“PORTO DO MOLLE” Nigrán

9000 m2 Manufacturing
1500 m2 R & D
3000 m2 Offices





R+D

Leader
technology from
GALICIA

Present in 32
countries

INTERNATIONAL IMPACT

INNOVATION

Continuous
improvement
philosophy

Importance of
persons

HUMAN CAPITAL

ECOLOLOGY



1959

Company foundation

1968

Company establishment. Innovation begins

1992

European pioneers in the pellet stove fabrication

1993

Inventors of the Hydro - stove

2012

First modulating Copeland Heat pump own design and development. Made in Spain, Own logic and software.

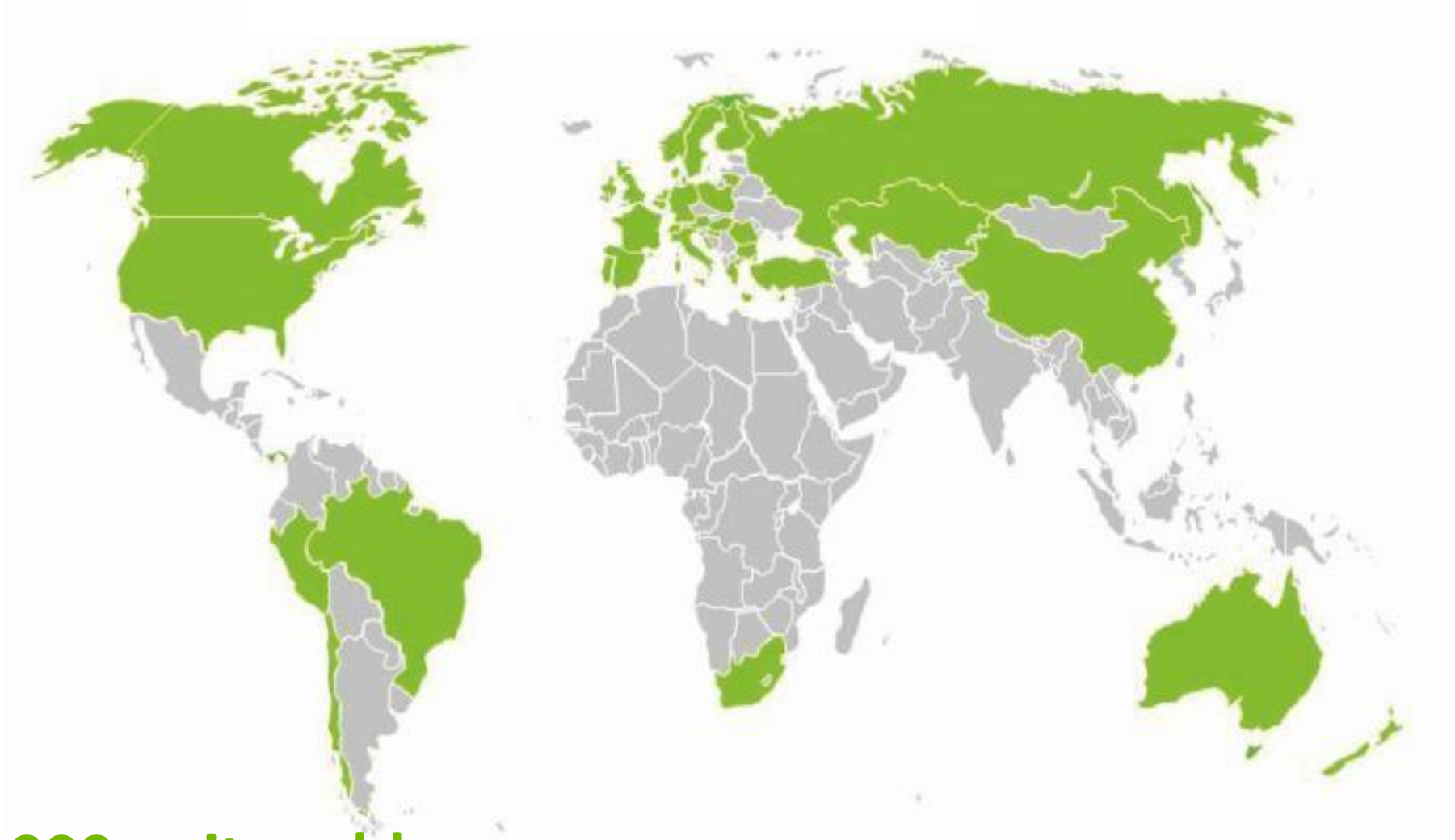
2018

1st High power: biomass boiler 100 kW class 5

2019

Evolution goes on

Present in 40 countries



20.000 units sold per year



Ecoforest is committed to R + D + i , allocating 5% of its turnover and certifying its own R & D + i management system with EQA



Ecoforest owns a world scale product research & development center located in Vigo (Spain)

Each Ecoforest new design is a state of the art development in:

- Thermal engineering
- Electronics
- Material engineering



- Own technology

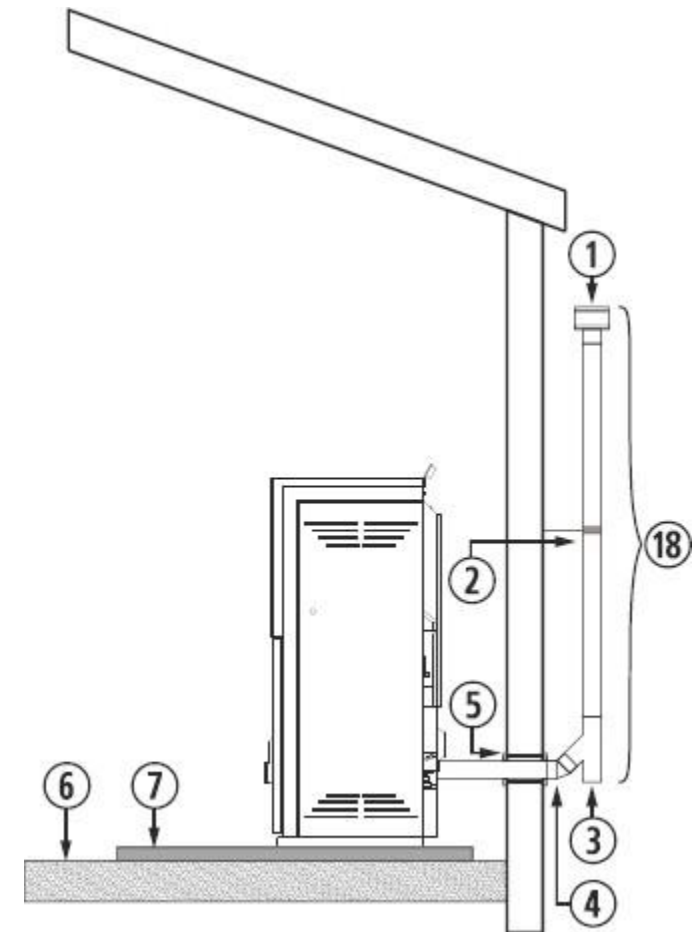
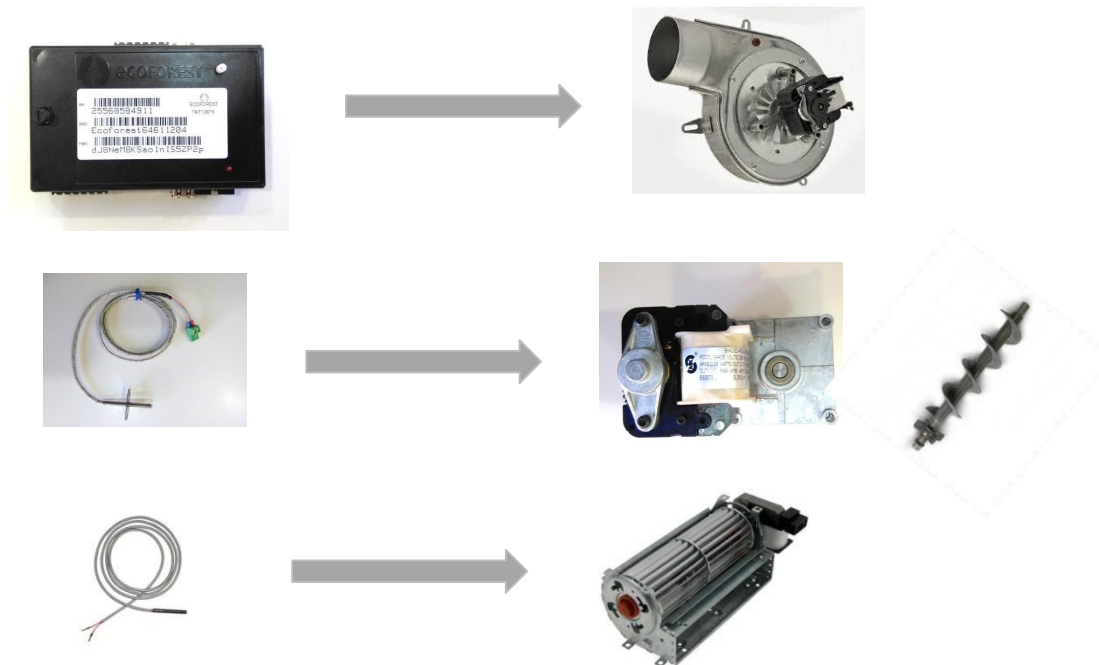
- Innovative electronic combustion control, key to energetic efficiency.

Specific technology required by the product, reflecting the know-how acquired during 20 years of experience .



Plug&Play: instalación sin necesidad de parametrización

- ✓ Ajustes automáticos de:
 - Caída de pellets
 - Entrada de oxígeno
 - Velocidad de convector



EASY MANAGEMENT

- Color LCD display in all models

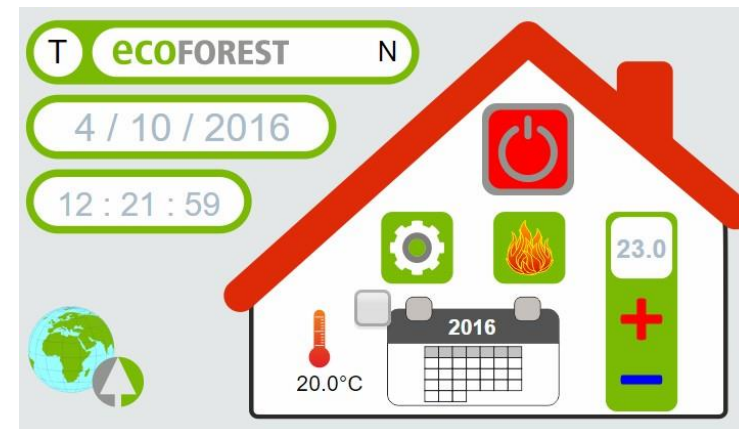
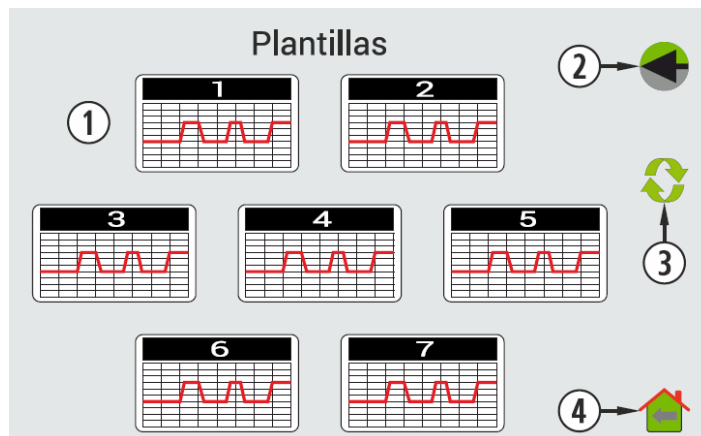
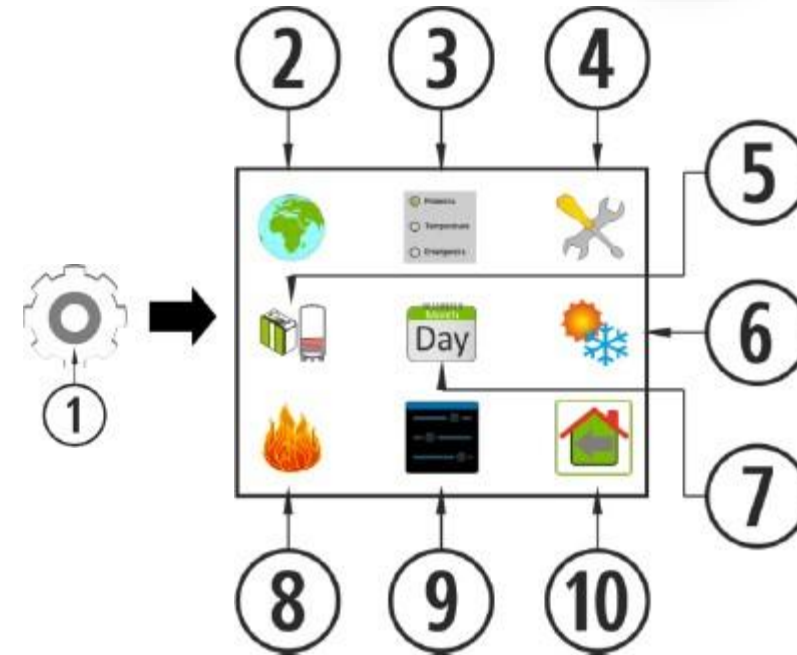
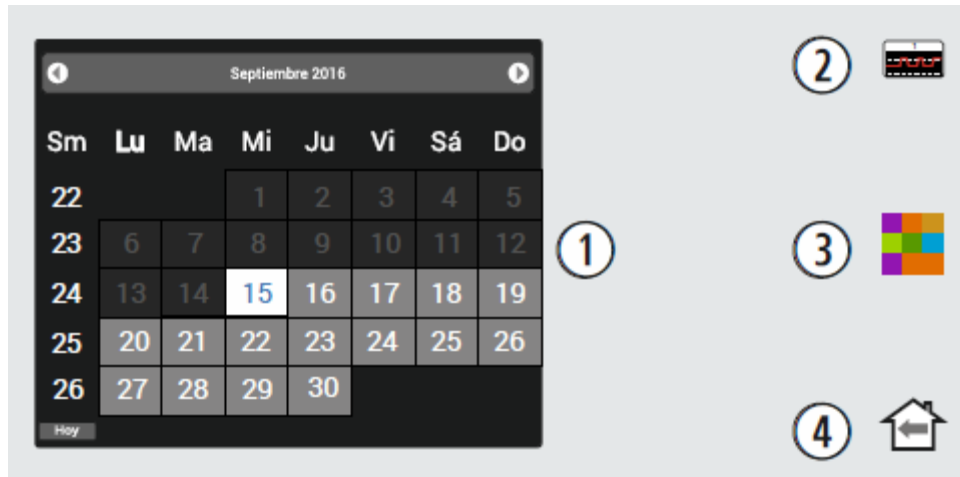


- enciende
- elige el combustible
- ajusta la temperatura deseada
- o si lo prefieres, ella recordará tus preferencias

Multi fuel



Programming and personalized calendars



The future of “Pellet stoves and boilers control”

- Own and distinct electronics
- Management from the stove’s display or from any wifi capable smartphone



STOVES



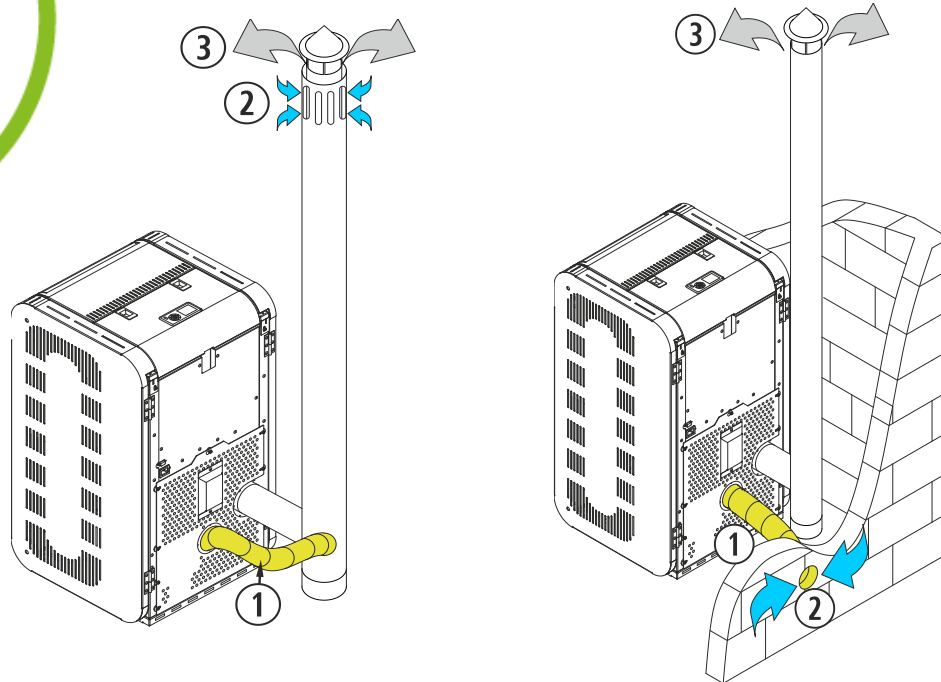
NEW Design



Stoves: air-tight function

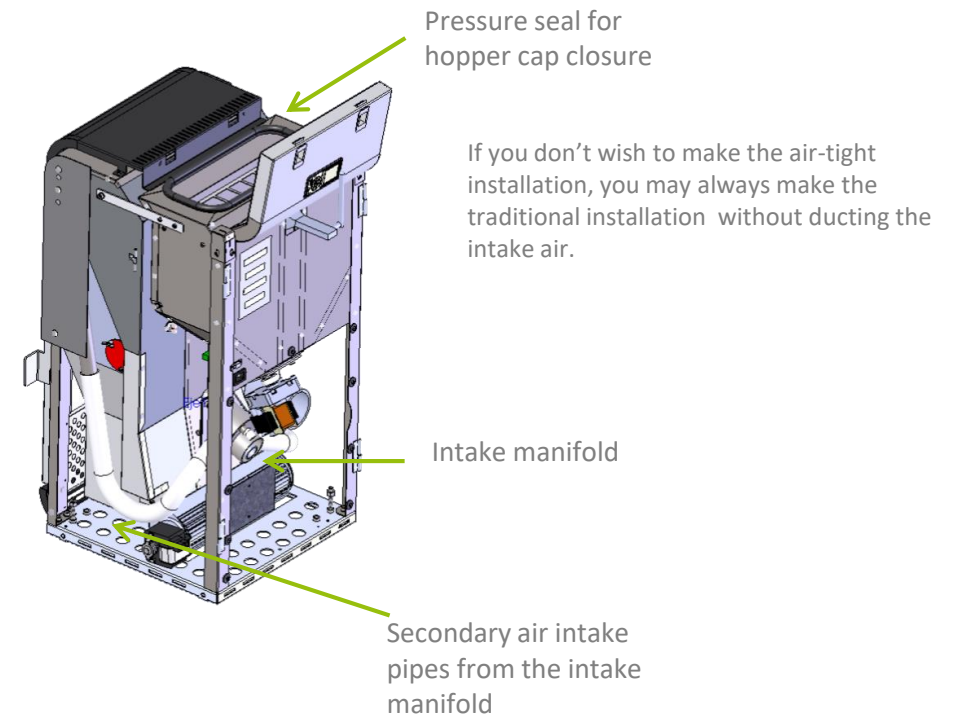


Models Moon, Mónaco and Keops



“DIFLUX” pipes

Two types of air-tight installation may be used. DIFLUX piping or Air intake connected directly to the open air.





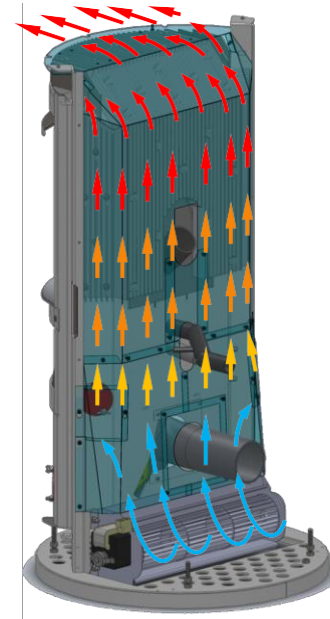
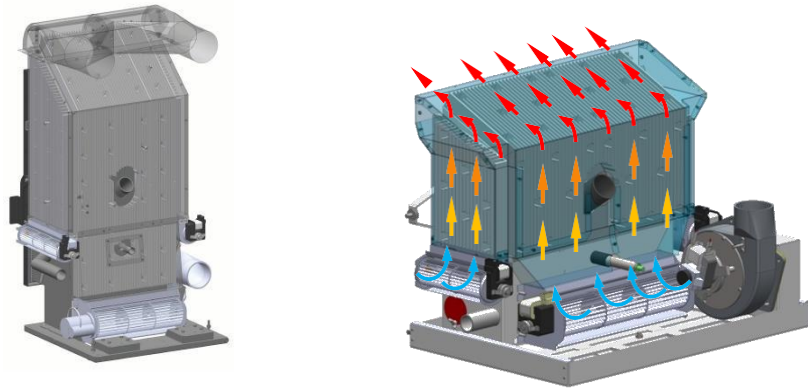
AJUSTE
Ajuste automático de la caída de pellets y de la entrada de oxígeno en función de la calidad del combustible y del tipo de tiro.



Aluminum finned heat exchangers



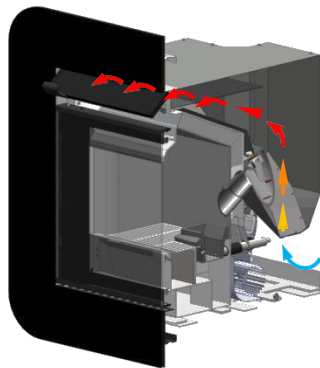
Significant Improvement of pellet stove's performance, by using aluminum surfaces.



Aluminum



Traditional



LLAMA + HUMOS

AIRE



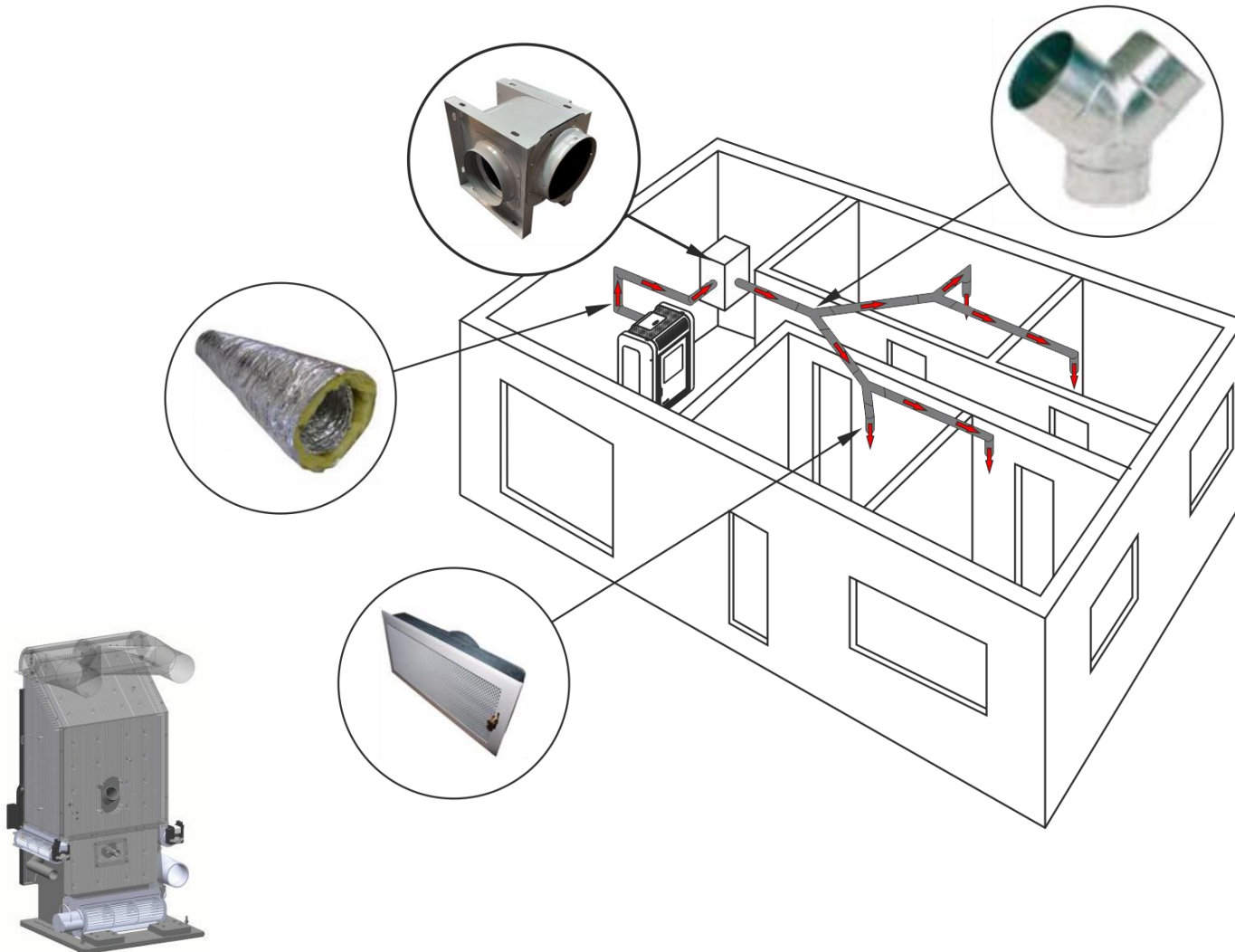
Insert air stoves



In the forefront of Design



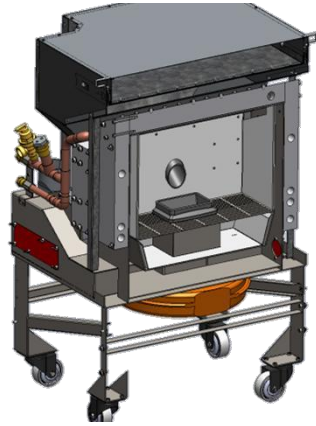
Ducted insert stoves



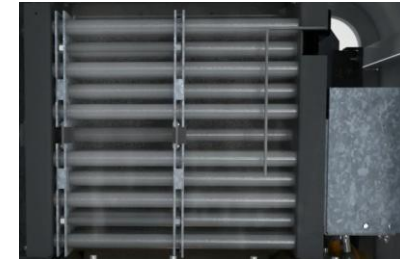
Ductable pellet stoves with air distribution to different rooms.



Water stoves



They work like the traditional boiler , but without the need for boiler room and allowing to see the flame.



Standard UNE-EN 303-5:2013: 5



Fully automatic cleaning

VAP RANGE



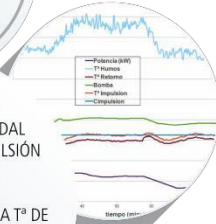
Semi-automatic cleaning



manual cleaning



MODULACIÓN DE LA COMBUSTIÓN Y DEL CAUDAL DE LA CIRCULADORA, IMPULSIÓN DIRECTA SIN INERCIA (SEGÚN ESQUEMA) CONTROL AUTOMÁTICO DE LA Tº DE RETORNO SIN NECESIDAD DE VÁLVULA DE CONDENSACIÓN



SENCILLEZ



adaptación POLICOMBUSTIBLE



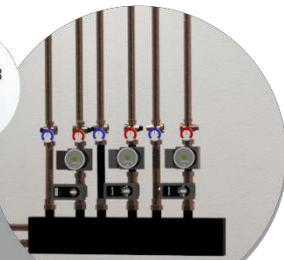
GESTIÓN DESDE SMARTPHONE



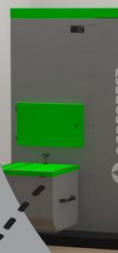
CLASE 5
TEMPERATURA DE SALIDA DE GASES ENTRE 85°C Y 145°C



GESTIÓN DE 3 ZONAS



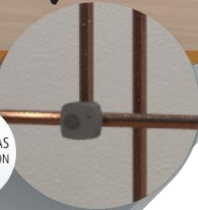
CONTROL



LIMPIEZA AUTOMÁTICA DE CESTILLO

COMPACTADOR AUTOMÁTICO DE CENIZAS

LIMPIEZA AUTOMÁTICA DE INTERCAMBIADOR DE CALOR



CONTROL VÁLVULA 3 VÍAS ACS/CALEFACCIÓN



CONTROL DE SILO EXTERNO



Variable power control

We control the pellet fall with “inverter technology“, which means the end of the fixed power “all or nothing” boilers. Our control system is able to adapt at any moment to the installation’s heating needs. It consumes at any moment only what’s necessary and giving unparalleled performances.

The introduction of such technology allows us to obtain a series of advantages impossible to reach with the traditional boilers.:

- *More economic and compact installations , since there’s no need to install a buffer tank .*
- *Less electrical consumption.*
- *More durable and reliable*
- *More comfort.*



 ecoforest

VAP 24



A⁺⁺

VAP range class 5 UNE-EN 303-5:2013: 5



Pyro-tubular heat exchanger

It provides a bigger water volume in the heat exchanger, making it easier for the managing of the sudden changes of thermal need in the installations.

Stainless steel combustion chamber

High temperature and acid resistant. Highly durable.

Fully automatic cleaning

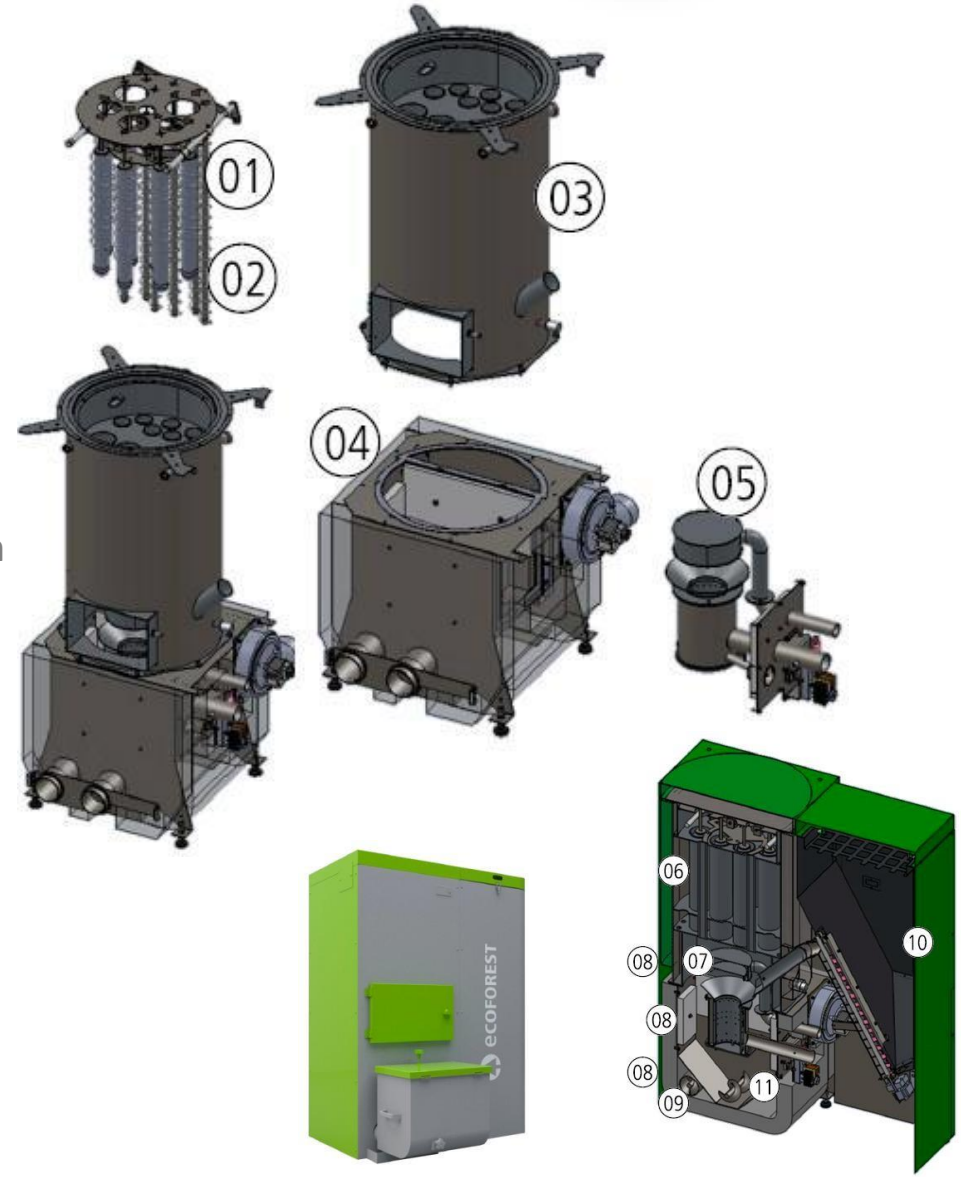
automatic cleaning of exchanger and burning pot without any intervention needed.

Automatic ash drag and portable ash tray box.

The ashes in suspension produced are carried to the front ash tray by means of a conveyor worm.

Expansion vessel

Helps to have a more compact and economic installation.



Variable speed circulation pump and high efficiency pump included.

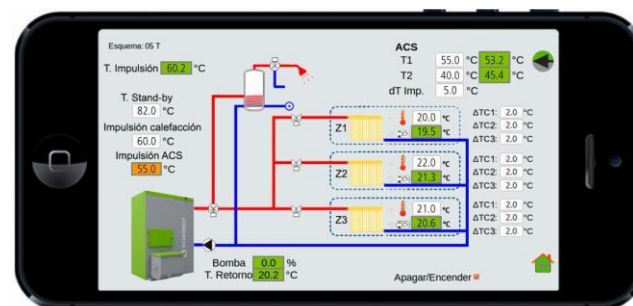
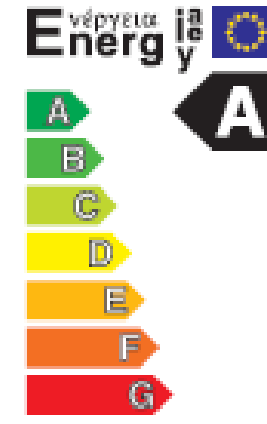
The circulation pump adapts its speed to the heating needs, consuming at each stage, only the necessary and ensuring the highest efficiency at the least cost possible.

Besides, these are high efficiency pumps, that is, Energy class A. Their high power makes the installation of expensive auxiliary pump unnecessary.

The boiler manages at all times the flow and return temps, adapting the power to maintain the desired flow temperature.

Electronic anti-condensing system.

Thanks to the return temperature control and the pump's variable speed, we reach a precise control and we avoid condensation with no need for any anticondensing valve.



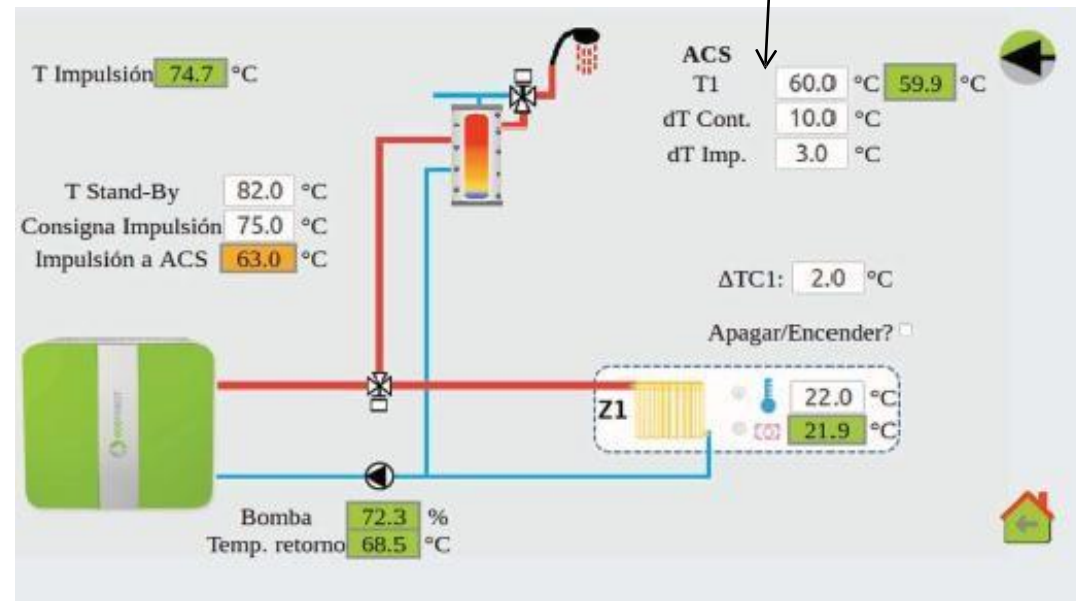
Boilers: control, electronic



Easy friendly and presentation of the status of the different components (heating pump, DHW pump, 3-way valve, DHW Tank etc.)

Select temperatura of the DHW

Select flow temperature



- ✓ Variable speed circulating pump included
- ✓ Anti-condensing control



Data transfer and software update through micro USB stick.

Software protections

- ✓ Frost protection
- ✓ Circulation pump anti blockage system
- ✓ Anti-legionella protection



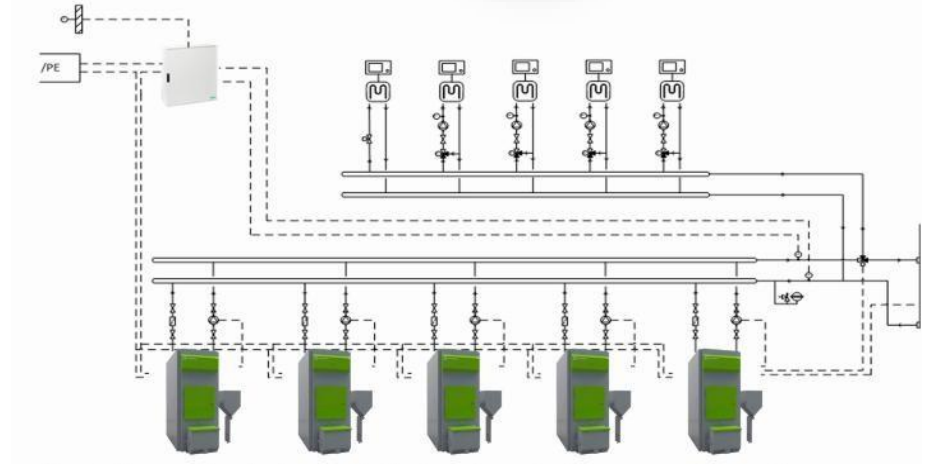
VAP 100



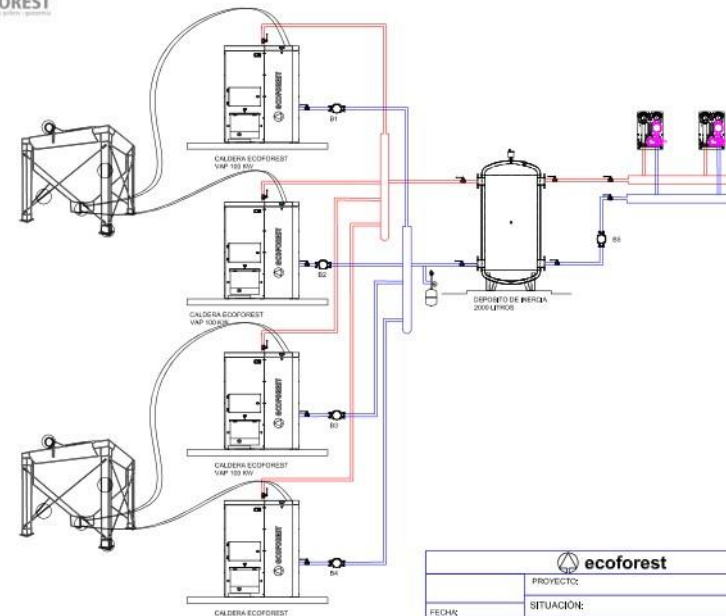
High Power
VAP 100 kW



Standard UNE-EN 303-5:2013: 5



Cinco Calderas en Cascada, impulsando directamente contra cinco zonas, con temperaturas diferentes y ACS: Gobierno de cinco Grupos de Impulsión.



TANKS



DHW

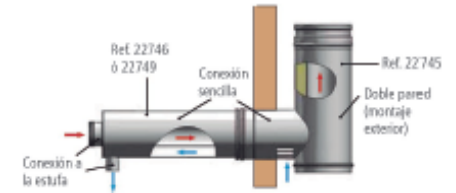
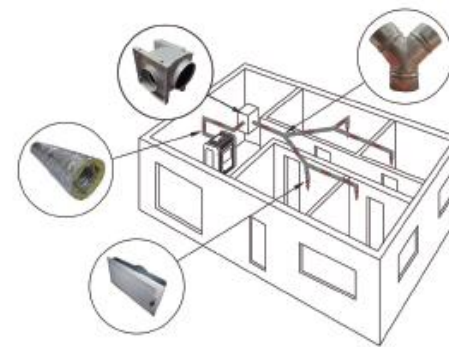


Buffer



Tank in Tank

Wide range of gas outlet pipes



Auxiliary components



Commun Spare parts



CPU



Extractor



Gearmotor



Display



Ignitor



Wifi Antenna



Flat wire



thermocouple



Filter



Display Cable



V40



Room probe



After sales service



TAS



Telephone support



Warranty



Logistics



Technical support in facilities

LOGISTICS



- Quality packaging (image and reduction of incidents)
- Lean manufacturing criteria with safety stock adapted to the demand
- Fast shipping
- National / international transport organization
- Shipping versatility and possibility that the client works with their own transportation.
- Transport incidents management
- Tracking management



References



ecoFOREST



Security guarantees



PRODUCT GUARANTEE

5 years in metal body and 2 years in electronics and components



SECURITY CERTIFICATE

"CE" AND "CB"



PRODUCT APPROVALS

Power, performance and emissions



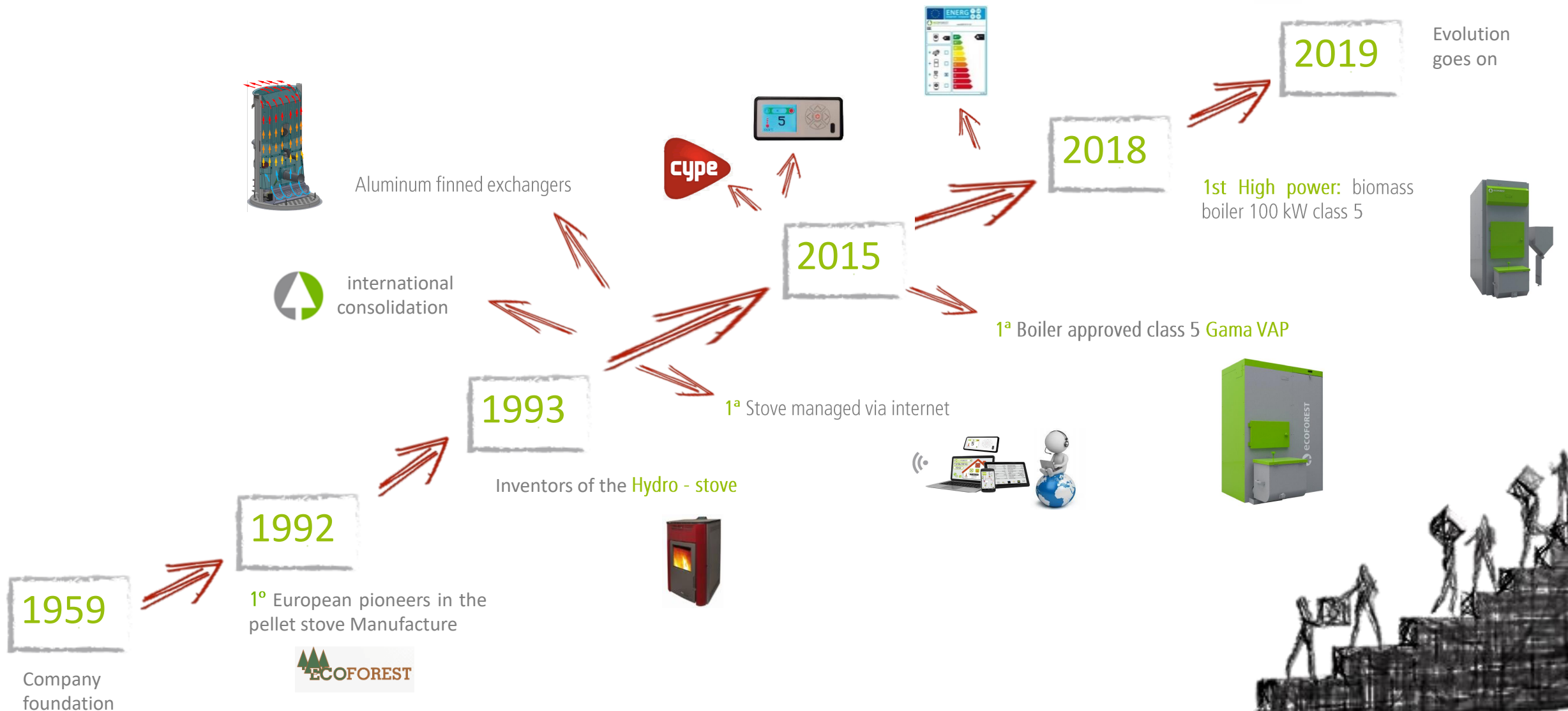
CERTIFICATES

Specific to each country



CESMEC

Grupo Ecoforest Biomasa





ecoFOREST

biomasa - bomba de calor - solar

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30 years later

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