

Ecodynamics, Inc



**ECOTHERM PELLET BOILER FURNACES  
SERIES EB2.0 - EB3.0 - EBV2.0 EBV3.0**

**35,000 BTU to 105,000 BTU**

**Product Information**



**Because we care.**

## With our warmest Recommendations



ECODYNAMICS, Inc is Americas first Designer and Manufacturer of fully Integrated Heating Solutions with Biomass Furnaces and Solar Systems available. ECODYNAMICS goes further: United with our customers and our Service Partners we will demonstrate the Power of Sustainable Energy. - The Energy for a better life.

## Because we care.



Design and Engineering of our Products are based on more than 20 years field experience for Pellet Boilers in Europe. With brand new manufacturing facilities we are able to set the highest standards for quality and efficiency. No compromises. Our High-Tech Products are based on the newest technologies and our goal is to be simply the best when it comes to clean combustion, best degree of efficiency, low maintenance, long service life and a state -of-the-art comfort.



## Pellet Fuel, our Energy of a better Future.



Are you concerned for our global welfare? If you are looking for a modern, clean burning fuel for heating purposes, you should look closer to Pellet Fuels.

Wood pellets are a 100% natural product with very high energy content. That makes them an ideal fuel for automated furnaces because storage and transportation are safe and easy. Wood Pellets burn CARBON NEUTRAL. That means they do not contribute to the global warming. Wood Pellets are giving us more independence from imported fossil fuels by creating new jobs in our regional economies.



## Wanted: Proud Customers!

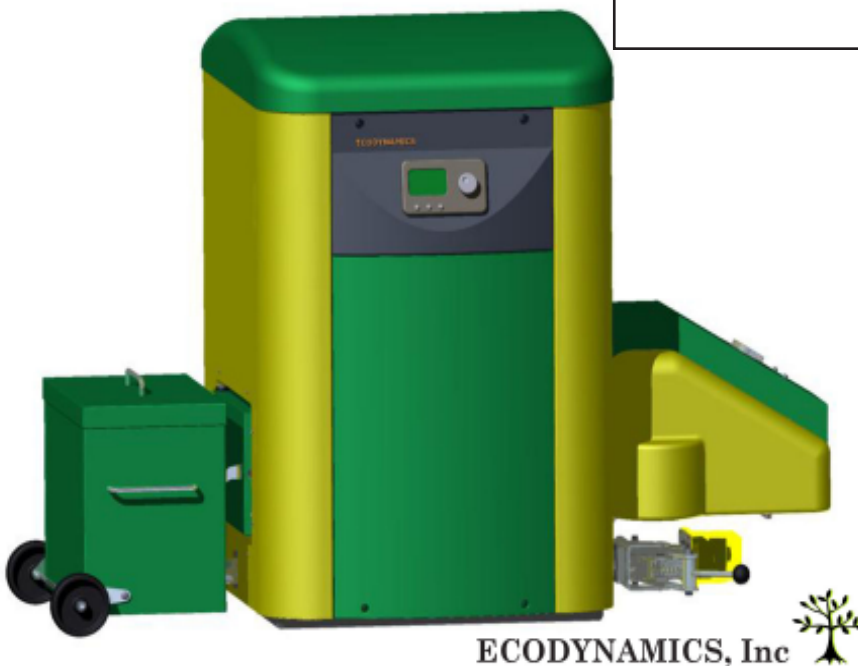
It is a different way of Thinking: We had a few things in mind when we started out on the design of our ECOTHERM Boiler Line:

We know that the customers for our Ecotherm Heating Solutions will not only be Investors into their own bank accounts, where the savings in heating fuel costs will rapidly exceed the extra investment for this new additional value for their homes.

We know that you are investing into our environment, into healthier forests and into a cleaner air; you contribute fighting global warming and you invest into our national and regional economies. And as oil prices keep climbing, it will just increase your savings.

Therefore you will be proud and therefore we are putting a lot of attention into the appearance of our Products: Sleek lines and a pleasant and practical design! We know you will show them to your neighbors and to your friends.

**EB2.0 Pellet Boiler**





### **Solid State Microprocessor Control Unit with Graphic Display**

The Control unit with a large graphic display and a scroll knob allows easy and fast programming of the boiler control.

Further features are configurable zone control circuits, storage tank controls, domestic hot water preparation and solar heating circuits. With easy to understand menus, you stay in control of your heating needs.

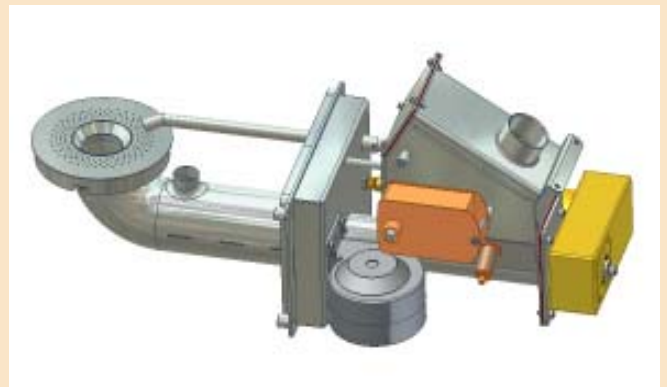


### **Fully Automatic Ash Extraction System with large Ash Container and ECODYNAMICS' INTELLIGATE spillfree coupling system.**

The ash container is large enough for a entire heating season. We have designed a system that allows you to remove the ash cart from the heater without spillings: Retract the conveyor, lift out the container and comfortably roll it away.

### **ECODYNAMICS' EP2.0 Pellet Burner**

Primary and secondary combustion air flows concentric around the stoker channel. The slower air flow and the large surface allows the air to heat up before it reaches the pellets. This contributes to a better precombustion of the fuel and at the same time keeps the stoker channel shielded from the direct heat, reducing the risks of a backburn. The gradual fuel supply from below guarantees a smooth combustion process and limits the fly ash emission.



## SAFETY BACKBURN GATE

Our safety concept consists of a **gas tight stoker channel** plus a **gas tight closing sliding backburn gate**.

After the burner is switched off, or in the event of a sudden power cut-off, the backburn gate closes automatically under springload and separates the burner from the fuel supply. The low profile sliding gate safely operates even in the case of an accidentally overfilled supply duct.



## ECOTHERM TUBULAR EXCHANGER WITH AUTOMATIC CLEANING

The automatic cleaning of the tubular heat exchanger is scheduled for once daily. The hole process takes about 15 seconds. The special cleaning springs have a further role as turbulators for the best possible heat exchange. The result is a constantly maximum efficiency of the boiler.



## ECOTHERM BURN VALUE BOILERS

In addition to the Standard Boiler Models, the Burn Value Series are allowing an efficiency of over 100% by using the thermal energy of the water condensation.

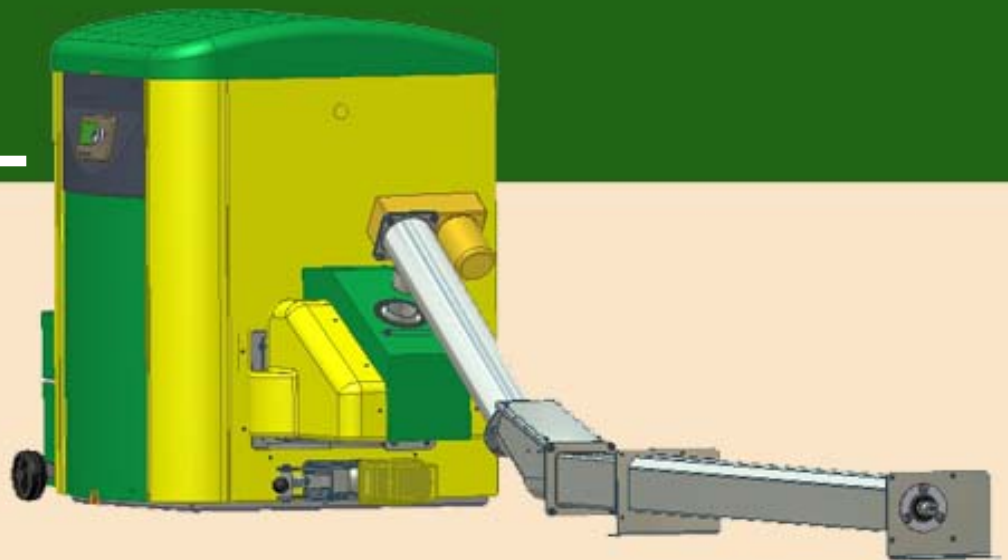
As a welcome side effect, the fly ash is removed from the exhaust stream and staying with the water. The exhaust gas temperature is reduced to approximately 50 degrees Centigrade, allowing the use of a PVC pipe.

As Americas leading manufacturer of High-Tech Biomass Boiler Furnaces for domestic heating, ECODYNAMICS, Inc is offering a model palette with two different boiler types, covering the range from 35,000 BTU to 105,000 BTU.

For modern low-energy homes or as replacement for existing systems: We got just the right solution for the very specific requirements for your home. We are offering levels of comfort, flexibility, reliability and safety that you could just dream about before.

The high energy contend and the fact that wood pellets are hiding no hazards for storage, transportation and handling, allows a variety of different feeding and storage devices with the right solution for every custom application.

## The Smart Way



**Pelletchamber with angled floor and auger collector**

The most common way for the automatic feeding and supply system is our auger conveyor with angled, adjustable elevator. Our collector channels are designed for the easy placement of the angled floor boards. We have all the hardware available in our program for the construction of the storage chamber.

Our carefully designed conveyor channels are available in a modular system to fit every possible situation. The pellet fuel is transported "on demand" towards the Burner.

Our Air Conveying system brings even more flexibility:  
The system includes a large 250 Liter buffer tank, a 2 inch hose, a vacuum blower with a efficient filtration and our modular Auger Conveying system.

This way, pellets can be transported from external underground tanks, sack silos or pellet storage chambers up to a distance of 60 feet.

The airstream will transport the pellets first into the buffer tank, attached to the boiler. From there they are fed "on Demand" into the burner system.



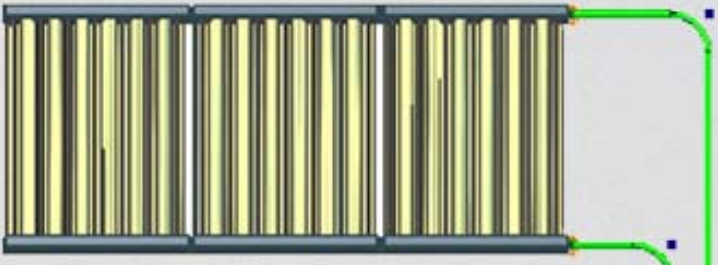
## A custom Solution ...in every Situation.



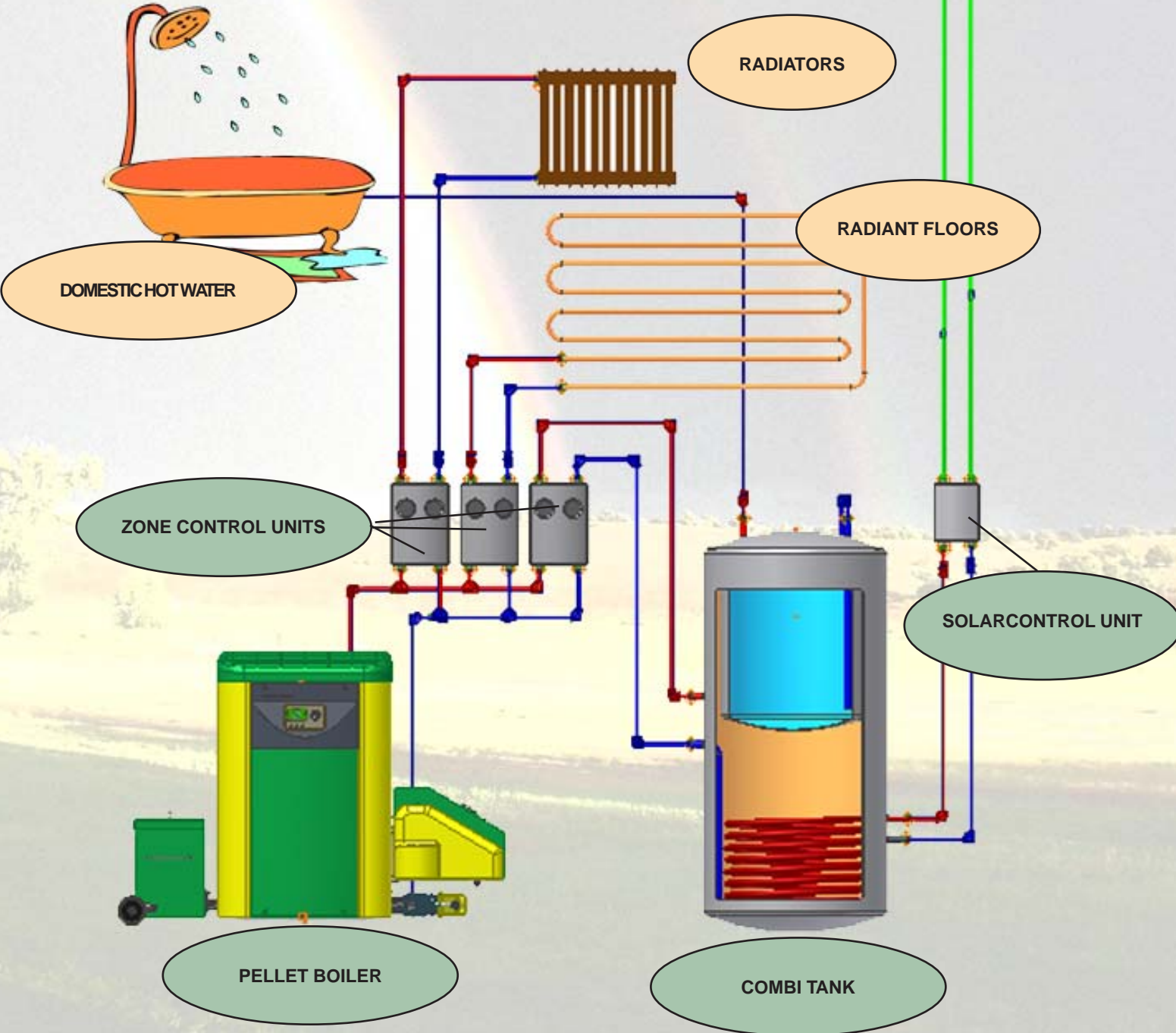
With ECODYNAMICS' Modular Conveying System, there are almost no limits for the fuel storage: Air Conveying from underground tanks, auger- or air conveying from sack silos. With our drop-off motor module, the pellets can be stored on your attic and are fed by free fall through a shoot to the burner.



CPC SOLAR COLLECTOR



### Installation sample with Solar Collectors, Ecotherm Pellet Boiler Furnace and Combination Tank.





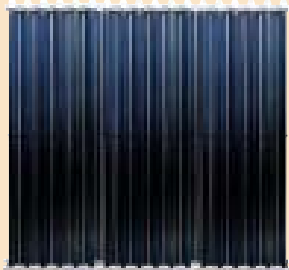
## Extra Comfort for your Bathroom.

With a separate zone control unit for your bath rooms, you will save on energy costs by adding additional comfort with owl heaters and a radiant floor. And when the temperatures become warmer in spring, keep your bathroom heated a little longer whilst turning off the heat for the other zones.



## Zone Control: more comfort for less money.

The right temperature for every room: Simply divide your home into different zones and you decide which rooms you want to heat more and which ones less. You are in control. Daily.



## TIME FOR CHANGE !

Hydronic heating systems offer plenty of opportunities for a healthier environment, inside your home and outside. And they come with a higher efficiency, that means better “gas mileage”.

Hydronic heating systems work without noise and the radiant heat is dust free and healthier.

## Sunshine is for free !

Yes, Sunshine is for free, and we have plenty of it in America. Just add Soloar Collectors to your Ecodynamics Heating System and watch your heating costs dwindling.

It's just another good reason for smiling when the sun shines. And since the domestic hot water preparation is part of our system, don't be surprised when when your boiler does not start at all during summer. No fuel costs, no emission.



Human-caused global warming is here -- visible in the air, water and melting ice -- and is destined to get much worse in the future, an authoritative global scientific report will warn: "The smoking gun is definitely lying on the table as we speak," said top U.S. climate scientist Jerry Mahlman, who reviewed all 1,600 pages of the first segment of a giant four-part report. "The evidence ... is compelling."



**NATURALLY WARM.**

**BECAUSE WE CARE.**

ECODYNAMICS, Inc

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