



# Solid Wood, Pellet and Combination Boilers 14-150kW



**Our vision is for customers to enjoy a cleaner and more sustainable way to bring total comfort to the family home**

**ENERBI IS THE PROUD DISTRIBUTOR FOR ATMOS BOILER TECHNOLOGY IN AUSTRALIA.**

As one of the largest boiler manufacturers in Europe, ATMOS have a strong history producing some of the most efficient, reliable and cost effective boiler systems available worldwide today.

- More than 40 years of experience
- Manufactured over 300,000 boilers
- Modern production facility

Our relationship is defined by a total commitment to quality, service and support and you can be assured that by buying an ATMOS boiler, you will keep your family home warm for many years while helping to maintain the environment for future generations to enjoy.

Enerbi's focus on bringing cleaner and more affordable energy to domestic consumers is second to none.

**WE ARE COMMITTED TO A PROCESS FROM BEGINNING TILL THE END.**

This includes the delivery of technology, technical support and maintenance over the life of the system to ensure customer satisfaction is guaranteed.

**The Enerbi ATMOS systems can significantly reduce hot water and heating costs and provide the greatest level of comfort for your home.**



# What are the benefits of using wood?

## WOOD IS A WONDERFUL RESOURCE

It is renewable, it is widely available and it provides benefits to our environment. By using wood, we are also using a resource which is available close to home and therefore strengthens our local economy.

A modern wood boiler is also highly efficient – actually twice as efficient as a wood heater. Normally, you only have to add fuel once a day, on very cold days maybe twice. Pellet boilers on the other hand are fully automatic, and with just a little attention, will keep your heating and hot water flowing all day long and keeping your energy costs to a minimum!

## A SOLUTION FOR EVERYONE

Wood boilers are very reliable, versatile and designed for long life, and there is a size and type to suit most situations. Whether you prefer solid wood, the pure convenience and automation of using pellets, or the flexibility of being able to use both fuels in one boiler, we have a solution to meet your needs.

## KEEPING YOUR COSTS DOWN

Wood has been used for thousands of years by mankind and continues to grow in popularity. Why would this be the case when we have electricity and gas which require little or no effort at all?

Electricity prices have risen sharply during the last decade while fossil fuels are exposed to political and climate change issues which create price uncertainty.

Wood has proven to be stable and predictable in price and quality during this time and by using it in an efficient wood boiler system, you can enjoy clean, sustainable and affordable heating for many years to come.



**Small homes or single dwellings**

**14-20kW**



**Family or mid sized homes**

**20-32kW**



**Large homesteads or residential blocks with pool and spa**

**>50kW**

# Wood Gasification Boilers

ENERBI IS PROUD TO INTRODUCE THE HIGHEST LEVELS OF PERFORMANCE IN WOOD HEATING.

The Atmos range of boilers have a gasification chamber which is lined with special ceramic mould with air ducts. Primary air is drawn through these ducts in the upper chamber where gasification takes place. Special nozzles in the lower chamber allow secondary air to complete the combustion process.

The gasification of wood with subsequent combustion of wood gas in a separate ceramic combustion chamber, ensures optimum burning of all combustible components. The air supply and combustion process are accurately controlled with an exhaust fan. This allows quick ignition and rapid temperature rise within the boiler, achieving temperatures between 1000 - 1250 ° C



## Advantages of ATMOS Wood Boilers

### Fuel Flexibility

Large pieces of wood

### Large fuel container

Allows long continuous operation between refuelling

### Tube heat exchanger

Ensures efficient and reliable transfer of heat

### High efficiency over 90%

Primary and secondary air is preheated to a high temperature

### Ecological burning

boiler class 5, EURO DESIGN 2015/1189

### Exhaust fan

Ash cleaning without dust, boiler room without smoke

### Cooling loop

Protection against overheating without risk of boiler damage

### Automatic exhaust fan

Switches off when the fuel burns out

### Large ash storage

When burning wood you have to clean it once per week



## One Boiler - Two Fuels

Maybe one day you will not have the time to manage your firewood? No problems! In this situation you can use your existing DC25S and DC32S models to burn pellets.

There are five easy steps to burning pellets:

- Allow boiler to cool off after burning wood
- Remove door insert
- Insert and secure pellet burner
- Connect pellet auger
- Turn boiler back on

The simple and affordable way to turn your wood boiler into an automatic boiler system without having to purchase another system.

# Wood Pellet Boilers

## ENVIRONMENTALLY FRIENDLY AND FULLY AUTOMATIC PELLET BOILERS

Atmos pellet boilers are fully automated and self-igniting, and the system switches itself on and off according to the heat requirements. The pellet feed is also controlled automatically by the boiler.

These boilers are designed so that the burner can be mounted onto the left or right side of the boiler

Cleaning of the burner combustion chamber and removal of ash is normally performed every 2-3 weeks and will depend on the quality of pellets. An automatic ash removal system is available to extend the cleaning periods.

A great advantage of these pellet boilers (D14P – D50P) is the fact that the burner can be removed and replaced with a supplied cover to allow emergency wood burning (D80 model cannot burn wood).



D14P – D80P

## Advantages of ATMOS pellet boilers

**High comfort of heating**

**High efficiency 90%-93% depending on type of pellets = reduced fuel consumption**

**Automatic operation**

**Optional accessories include automatic ash removal, battery backup and mobile phone control**

**Specified fuel quality:** *Wood pellets with a diameter of 6 to 8 mm, length from 5 to 25 mm and calorific value of 16-19 MJ/kg*

## Key Features

**Electronic boiler regulation**

**Automatic fuel feeding conveyor**

**Pressure relief safety device for improved safety**

**Pellet silos for reducing the time you spend fuelling the fire (150 – 5000kg)**

# Combination Boilers

The new series of combi boilers ATMOS DC25SP and DC32SP allows you to burn both wood and pellets in one boiler – a truly versatile system! Wood is burnt cleanly by gasification while the reliable A25 series pellet burner operates in the lower chamber. This combination allows you to change from wood to pellets without changing parts.

## EFFICIENT BOILER DESIGN

The boiler consists of three chambers and is effectively a wood gasification boiler mounted on top of a pellet burning chamber. Both these sections are separated by a water jacket so that they do not interfere with each other ensuring that the boiler achieves high efficiency using either fuel.



## Advantages of ATMOS Combi Boilers

### Fuel Flexibility

Wood or pellets... your choice

### Continuous Operation

When your wood burns out it continues to run on pellets...no coming home to a cold house

### High Efficiency

Wood and pellet combustion chambers are kept separate to allow high efficiency when using either fuel

### Ecological burning

boiler class 5, EURO DESIGN 2015/1189 which exceeds all Australian Standards for emissions and performance

### Cost Effective

One chimney and one buffer tank for what is effectively two boilers

### Save Space

Fewer components to the boiler system saves you valuable floor area

### Exhaust fan

Ash cleaning without dust, boiler room without smoke

### Large ash storage

When burning wood you have to clean it once per week

## Wood Boilers

Technical data:		DC 25 S	DC 25G D	DC 32 S	DC 30 GD	DC 50 S	DC 50 GD	DC 70 GSX	DC 150 S
Boiler output	<b>kW</b>	20-27	25	25-35	30	35-49	49	70	150
Specified chimney draught	<b>Pa</b>	23	18	24	20	25	24	30	25
Boiler weight	<b>kg</b>	326	469	366	469	433	565	571	780
Water volume in boiler	<b>L</b>	58	105	80	105	89	128	132	306
Wood Chamber Volume	<b>L</b>	100	125	140	125	180	170	210	400
Max wood length	<b>mm</b>	530							730
Minimum water re- turn temperature	<b>°C</b>	65							
Required Fuel		Dry wood with specific energy 5-18 MJ/kg, diameter 80 - 150 mm, 12 - 20% water content							
Connecting Voltage/ Amps		240V / 10							
Efficiency		up to 90 % at nominal output							

## Pellets

Technical data:		D14P	D25P	D30P	D40P	D50P	D80P
Boiler output	<b>kW</b>	4.5 - 14	7 - 24	8.9 - 29,8	8.9 - 40	13,5 - 45	24 - 80
Specified chimney draught	<b>Pa</b>	16	22	21	22	23	25
Maximum working water pressure	<b>kPa</b>	250	250	250	250	250	250
Boiler weight	<b>kg</b>	231	254	370	386	430	695
Flue diameter	<b>mm</b>	152	152	152	150/152	152	180
Boiler height	<b>mm</b>	1405	1405	1405	1405	1405	1663
Boiler width	<b>mm</b>	606	606	606	606	606	684
Boiler depth	<b>mm</b>	470	470	670	954	870	1410
Electric power – pellet ignition	<b>W</b>	522	522	530	530	530	635
Electric power - during operation	<b>W</b>	42	42	97	97	97	142
Boiler efficiency	<b>%</b>	90.3	90.2	92.4	90.1	91.1	91.2
Specified fuel		High quality pellets with 6 - 8 mm diameter, length 5 - 25 mm and 16 - 19 MJ.kg <sup>-1</sup> calorific value (white pellets)					
Minimum volume of buffer tank	<b>Litres</b>	500	500	750	750	1000	1000
Connecting voltage	<b>V/Hz</b>	230/50					

## Combination Boilers

TECHNICAL DATA		DC 25SP	DC 32SP
Wood boiler output	<b>kW</b>	17 - 25	25 - 35
Pellet boiler output	<b>kW</b>	6 - 20	6 - 20
Oil boiler output	<b>kW</b>	15 - 30	15 - 30
Fuel - wood		Round wood 12 - 20 % moisture, Energy Content 15 - 18 MJ/kg Diameter 70 - 150 mm	
Fuel - pellets		wooden pellets of quality, diameter 6 - 8 mm White pellets	
Fuel - (Diesel)		Diesel with heating capacity of 42 MJ/kg	
Maximum length of wood	<b>mm</b>	530	530
Wood charging hopper volume	<b>Litres</b>	100	140
Weight of boiler	<b>kg</b>	506	571
Volume of water in boiler	<b>Litres</b>	109	160
Pellets container		EXTERNAL - 250, 500, 1000 l	
Connecting voltage	<b>V/Hz</b>	230 / 50	





**ATMOS**

# Enerbi Pty Ltd. Distributors and Agents for ATMOS Boiler Technology in Australasia

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