

# RENEWABLE HOT WATER

Specifically developed for the UK climate



# ABOUT SOLAMICS



Solamics Ltd. brought together over 12 years of Research & Development into the science of thermodynamic systems and leading heat pumps technicians to create the Bunsen Air hot water system.

We can harness the FREE energy found in the UK climate and generate renewable hot water.

We developed our Bunsen Air specifically for the range of weather conditions and temperatures found in the U.K. climate. The system will work in any UK weather, working in temperatures as low as -8°C. New developments throughout the system have been essential to boosting the performance and power to create new levels of efficiency in even our worst weather!

The Bunsen Air is designed to simply take over from your existing hot water heating. It automatically transfers the abundant FREE Energy from the UK climate to heat up your hot water cylinder. The dual panels system provides exceptional DAY and NIGHT performance. A simple retrofit can simply upgrade your existing water cylinder to create a renewable hot water system.

Solamics Ltd. have tested and developed every aspect of the Bunsen Hot system to maximise performance and efficiency. The dual panels incorporate the new 'Patent Pending' dual exhaust technology, which has improved our panel performance by 30% alone! The Bunsen Controller has upgraded to rotary compressor technology along with many technically superior

WHAT OUR CUSTOMERS SAY:

**“We sell and install the Bunsen Air hot water units. The design of this system is exemplary resulting in massive benefits to the customer. The feedback we have had from our customers has been exceptional. We would highly recommend the product and its manufacturing team, and will continue to install these units for many years to come.”**

components, greatly improving reheating times and system efficiency.

We identified our goals for excellence in developing the Bunsen Air:

**POWER, EFFICIENCY, SOUND, CONTROLS, AESTHETICS, COST**

“We don't believe that any other system comes close to the Bunsen Air!”

Solamics Ltd. are now introducing the Bunsen Air systems to the wider European markets as the power and performance proves itself time and time again.



# THE BUNSEN AIR

WHAT OUR CUSTOMERS SAY:

***“OUR BUNSEN AIR HAS  
PRODUCED ALL OUR HOT  
WATER SINCE THE DAY IT WAS  
INSTALLED!”***

When installed to your existing system, the Bunsen Air can take over creating ALL of your domestic hot water. You can simply leave your existing system as a secondary heat source if needed, and allow the Bunsen Air to generate renewable hot water for your home.



## Upgrade Your Home

- Switch off your existing system and allow the Bunsen Air to take over
- Reduce your carbon footprint by significantly reducing your energy usage
- Lower your heating costs by moving away from costly energy sources
- Add value to your property by introducing renewable hot water
- Protect against increased energy bills with a low energy system
- Enjoy day or night automatic reheating with 24hr variable temperature settings
- Feel good about renewable – the more you use the more you save!

## Where does the Bunsen unit fit?

The Bunsen unit is fitted as close to your existing or new hot water cylinder as possible. Ideal location will be established during your survey.

## Where do the panels go?

The two panels are mounted externally in order to be exposed to all the natural elements. They can be fitted on a pitched roof, flat roof, vertical wall, or ground mounted.

## What about my existing heating?

Whatever your heating system is – Gas, Oil, Electric or LPG – you can leave it in place but switch it off, just add the Bunsen Air and it will take over making all your hot water.

# WHERE DOES THE HEAT COME FROM?

Day & Night Hot water  
from nature's FREE energy



## DAY & NIGHT HOT WATER FROM NATURE'S FREE ENERGY

The Bunsen Air works by harvesting FREE energy from our UK weather, and transferring it to your hot water cylinder.

An Ozone friendly refrigerant, which has a boiling point of  $-26^{\circ}\text{C}$ , flows through the panels and back to the Bunsen Unit. The refrigerant leaves the Bunsen Unit as a cold liquid, as it passes through the panels the refrigerant

absorbs heat energy and changes from a liquid to a 'super-heated' gas. On returning to the Bunsen Unit the gas is compressed back to a liquid, and the heat energy is transferred directly to your hot water.

The panels are made from aluminium, which is both lightweight and an excellent conductor of heat. The dual panels have a large surface area which increases the energy transfer to the refrigerant liquid. Energy is efficiently transferred not only the air temperature, but also the wind, rain, sunlight and even the snow, into the refrigerant.

Understanding that multiple natural elements create energy transfer is key to understanding that this system works day and night. The energy from our atmospheric conditions are present 24hrs a day, which is why the Bunsen Air continues to function efficiently day or night.



# UPGRADE TO RENEWABLES

## Simple fit to your existing cylinder

If you have a suitable cylinder, you can simply leave your existing cylinder and heating system in place, and add a Bunsen Air system to take over the generation of ALL of your hot water requirements. Your existing heating system simply becomes a back-up.

## Improve your existing cylinder

If you have a very old cylinder, or want to improve your home to a pressurised system, then you can chose to have a new top quality cylinder installed along with your new Bunsen Air System.

## Add a new cylinder

If you don't have a hot water cylinder in your home, then you can choose to have a top quality pressurised system installed to allow the Bunsen Air to generate all your hot water needs. There is no change to existing your boiler!



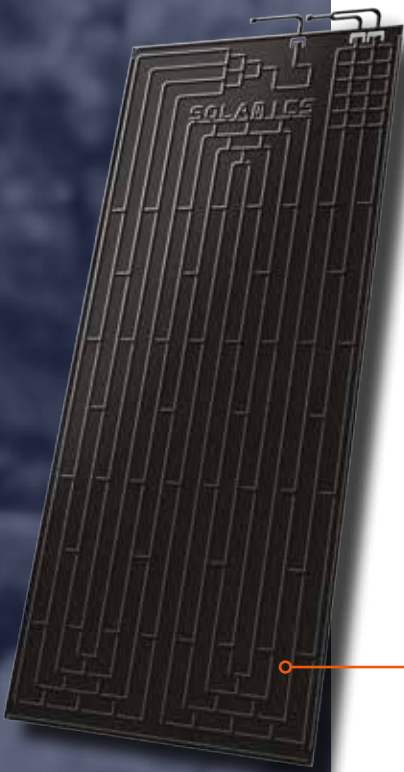
## DATA SHEET

### BUNSEN AIR CONTROLLER

Cover	Cold Rolled Steel
Chassis Base	Galvanised Steel
Dual Panel Thermal Power (Max)	2690w
Consumption (Rated)	444w
Sound Level	<41 dBa
Power Supply	230-50 V/Hz
Operating Current (Max)	13 amps
Pre-set Water Temperature	53°C
Maximum Water Temperature	60°C
Hydraulic Connection (Inlet/Outlet)	3/4" - 3/4"
Max Operating Water Pressure	8 Bar
Operating Temperature Range	-8 ~ 40 °C
Refrigerant Connection (Inlet/Outlet)	3/8" - 1/4"
Refrigerant Charge (134A)	1400g
Disinfection Cycle (Auto)	Weekly
Protection	IP21
Dimensions	500x400x260 mm
Weight (Pre-Charged)	39 Kg
Warranty	2 years

### BUNSEN AIR PANELS

Material	Aluminium
Finish	Powder Coated
Material Thickness	2mm
Height	2000mm
Width	800mm
Frame Depth	25mm
Pre-Drilled Fixing points	6
Weight	8.9kg
Panel Design	Patent Pending
Warranty	10 years





# INSTALLATION

Our aim is that you are so impressed with the installation to your property that you recommend Bunsen Air



Your installation team will arrive with everything necessary for a swift and efficient installation. Fitting a Bunsen Air system is usually a single day process, where new cylinders are fitted this may increase.



Solamics run full training courses for the installation of this system. Technical support is always available to installers through phone, live chats and various technologies to support installers throughout installations.



Only qualified engineers can install the Bunsen Air system. Registration of the installation on-line will generate a warranty certificate directly to the end customer.

## BUNSEN AIR PACKAGE



All accessories are of the highest quality and included in your package.

# THE PROCESS

You will be professionally guided through every stage of the process. Our success depends on our customers being delighted with their new Bunsen Air system, and the service we provide before, during and after every installation.

**“Ordering my Bunsen Air was simple, the install was exactly as discussed and fitted in a day – fantastic!”**



## PRODUCT AWARENESS

This brochure is aimed at providing basic information on the Bunsen Air system. For more information please visit our website where more in depth information and videos are available.

01



## PROPERTY SURVEY

A bespoke property survey is carried out for every installation. This is part of the process to ensure that each installation is successful. The customer is included in selecting installation locations for the panels and Bunsen unit.

02



## INSTALLATION PROCESS

Once an installation date is arranged, a timescale for the installation will be provided. Qualified engineers will carry out the installation based on the Property Survey.

03



## SYSTEM COMMISSIONING

On completion of the installation all work will be recorded on a Commissioning document. The system will be set up for your property requirements, and you will be shown how the controls work.

04



## FOLLOW UP CONTACT

Your feedback is essential to our success. You will be contacted to ensure that you are pleased with your Bunsen Air system, and for any questions to be answered.

05



# TESTIMONIALS



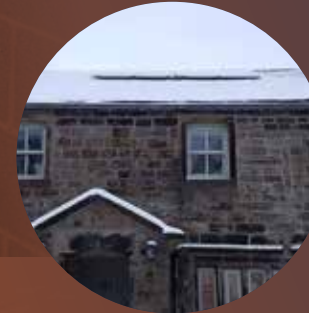
## CHRISTINE & RAY MURRAY

"The Bunsen Air now makes all our hot water. We have a 210 ltr hot water cylinder which gives us all the hot water we need for our family of four. The installation was fast and efficient and done in a day. I had my panels fitted in the back of the house where they are exposed to the wind and rain."



## QUENTIN DURKAN

"I added a Bunsen Air system to my existing hot water cylinder. Installed in a day my Bunsen Air provides all the hot water for my home. This brilliant upgrade product gives me renewable hot water day and night."



## JAKE & SOPHIE FINDLAY

"The day I had my Bunsen Air system installed I turned my oil off for my domestic hot water. We are an active household of 2 adults and 2 teenagers, so I would say we are high users of hot water. Even in the freezing weather we always have hot water. To be honest we probably use more hot water now because we know it is cheap and renewable."



## MR & MRS BANHAM

"We took the opportunity to change our vented system to a pressurised system. At the same time the cylinder was moved up into the roof space so we now have a big airing cupboard that we never had before. The Bunsen Air generates all of our hot water, and the pressurised cylinder gives us fantastic pressure throughout the house. Great system!"





[www.solamix.co.uk](http://www.solamix.co.uk)