

OC Innovations – Heat Recovery System

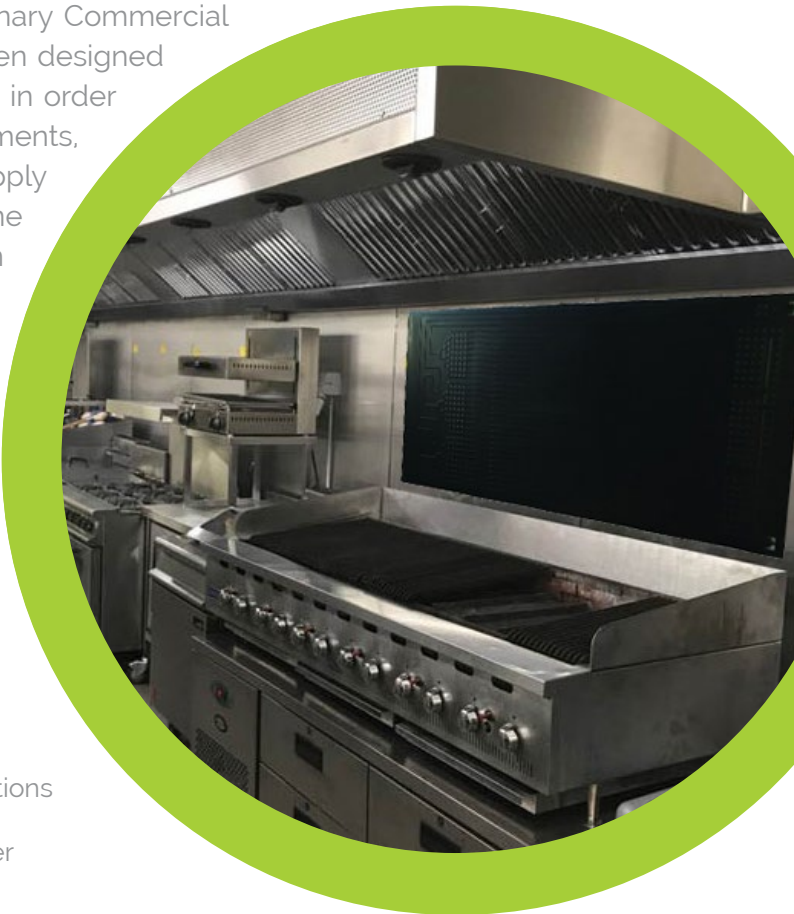
OC Innovations are proud to present their revolutionary Commercial Kitchen Heat Recovery system. The system had been designed in order to utilise the waste heat from the cook line in order to provide the site with all its hot water requirements, central heating, or to heat the kitchen fresh air supply system. This is all done without the need for cook line alterations, with no effect on the extraction system meaning it can be quickly and easily retro fitted to any site, providing significant cost savings and a fantastic ROI.

Suitable for...

- Any Restaurant
- Any takeaway or fast food outlet
- Any Hotel or conference centre
- Any Food Processing/Manufacturing site
- Any School or College

Key Points...

- Saves money
- No alterations to extraction system or cook line
- Quick and easy installation
- No adjustments required to extraction system calculations
- No routine or annual maintenance
- Converts waste heat from cook line into 55°C Hot water to be used on site
- Can be used within central heating system on the site as well as provide hot water
- Works on independently even after service has closed
- MCS Accredited
- WRAS Approved
- KIWA Approved
- Grant funding approved
- Fully Warranted



Heat Recovery Panel >

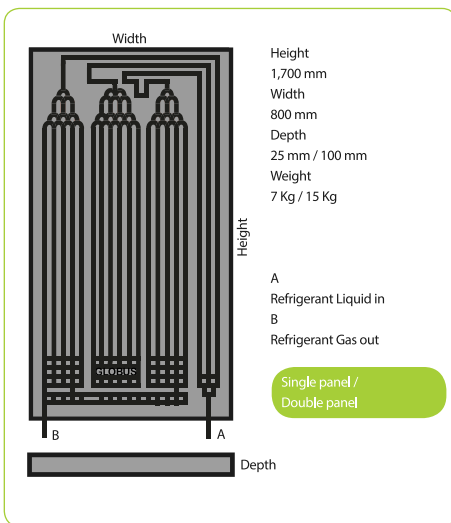


OC Innovations – Heat Recovery Panel

The OC Innovations Heat Recovery panel has been ingeniously designed to maximise the absorption of energy from the extracted air and can be installed in either portrait or landscape orientation.

The OC Innovations Heat Recovery Panel provides the best possible platform for both the OC Innovations Heat recovery Box to deliver supreme efficiency, providing significant savings with a fantastic return on investment.

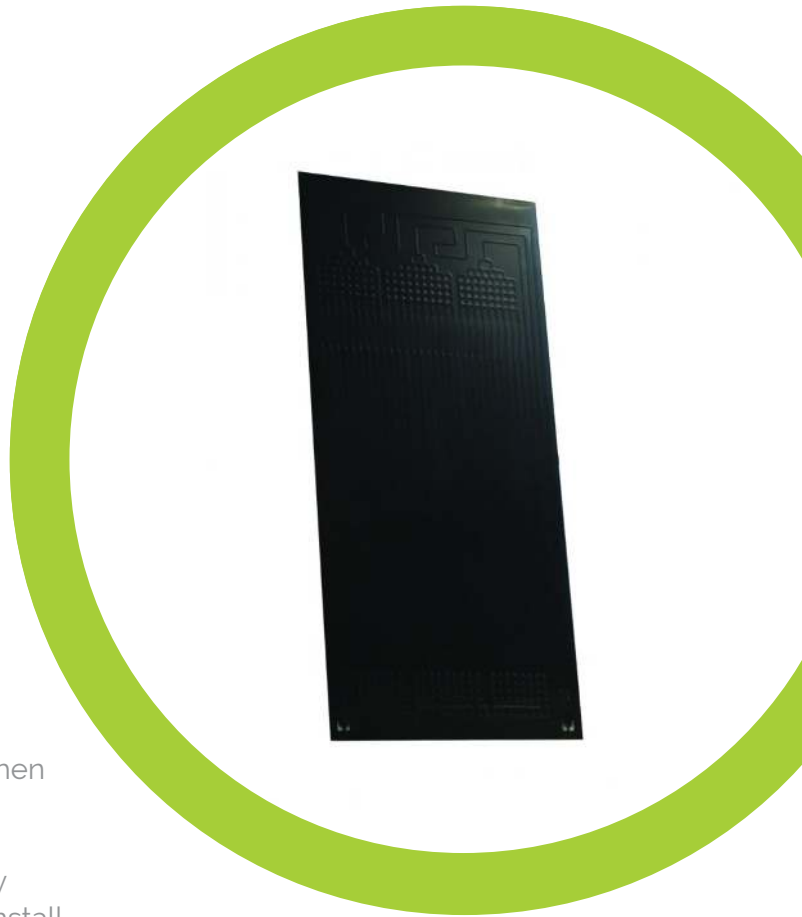
The OC Innovations collector is lightweight, double inflated and EN ISO 9806:2013 accredited.



It requires no routine maintenance and can be wiped clean as part of weekly routine kitchen cleaning.

The panels are very quick and easy to install on any site.

The panels come with a full 10 year warranty.



How it works >



OC Innovations – Heat Recovery Panel

HOW DO OC INNOVATIONS HEAT RECOVERY PANELS WORK?

OC Innovations Heat recovery panels are designed to be installed internally. The panels work as part of a heat recovery system.

The panels contains a refrigerant liquid which has a starting temperature of -22 degrees. It is this incredibly low starting temperature that allows panels to absorb energy from the extracted air allowing it to operate throughout the working day and then continue as the cooking equipment cools after service.

The panel typically would be installed either on the wall cladding behind the cook line or even can be installed within the canopy opposite the extraction side. As the refrigerant liquid passes around the panel, the extracted air passes over the panel with heat coming off the cook line raising the temperature of the liquid.

The refrigerant liquid has a boiling point of -15 degrees. Once the liquid reaches this temperature it vaporises into a gas form. This gas is now taken into your water cylinder where it is compressed to create heat energy.

This energy is used within the water cylinder to heat your water supply efficiently providing you with hot water generated from the waste heat from the cook line. The process will repeat until the hot water demand has been satisfied.

Heat Recovery Box >



OC Innovations – Heat Recovery Box

The OC Innovations Heat Recovery Box is the all in one solution to your hot water heating requirements. Enabling us to offer a complete range of Heat Recovery systems, with either our 130L, 200L or 300L indirect, unvented cylinder, suitable for all installations. This hot water heating and storage system has been MCS tested and carries all the required approvals.

The OC Innovations Heat recovery Box transfers this energy to water within its casing, to efficiently and cost effectively handle the water heating for use in your business providing significant savings with a fantastic return on investment.

The OC Innovations Heat Recovery system is cost effective to run with very low annual costs, and will provide up to all the sites hot water requirements and also can be used as part of the central heating system on the premises.

The OC Innovations Heat recovery system is A rated and carries KIWA approval. The boxes come with a 25 year warranty on the cylinder and 5 year on the compressor.



How it works >



OC Innovations – Heat Recovery Box

HOW DO OC INNOVATIONS HEAT RECOVERY BOXES WORK?

The OC Innovations heat recovery panel circulates refrigerant liquid where energy is absorbed from the waste heat from the cook line.

This transforms the liquid into a gas, which carries the heat energy to the OC Innovations Heat Recovery box.

The OC Innovations Heat Recovery box then compresses the gas which increases the temperature.

The spent gas reverts back to a liquid which flows back in the panel, allowing the process to start again.

Simultaneously, the superheated gas heats the water within the cylinder using a proprietary process.

This process continues until the water in the cylinder reaches 55C.

Once this is achieved the system goes into standby mode.

