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Rinnai

Hot water solutions

Training Courses & CPDs



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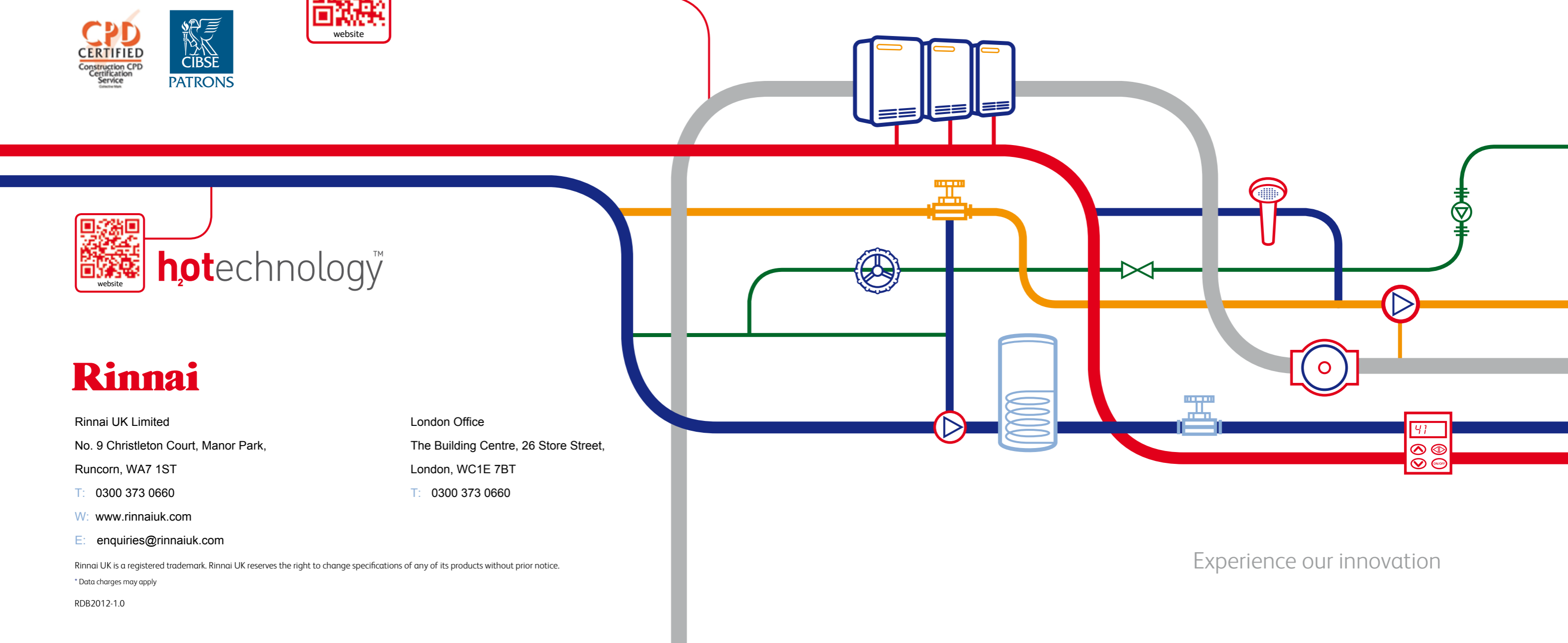
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Experience our innovation



Experience our innovation - with training at a location that suits your business

As a part of the Global Rinnai Group and as the UK and European leader in supply of continuous flow water heating technology for Commercial, Domestic and Renewables, Rinnai is at the forefront of innovative and efficient systems and technology.

With the UK water heating industry facing a myriad of environmental and politically driven market forces, including the need to reduce Carbon Emissions within new and existing buildings in the short, medium and long term. We seek to clarify and engage with the market to assist decision making and understanding of the different messages faced by todays engineers, installers and designers.

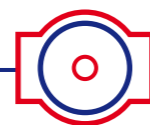
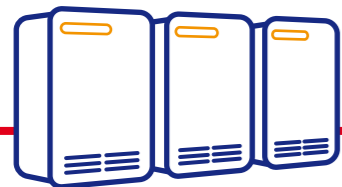
We will demonstrate how innovation can reduce the burden on fossil fuels whilst maximising renewable gains. We will look at the growing support for continuous flow technologies and how this can benefit new and existing buildings versus traditional systems including gas fired storage. We will analyse water heating design and sizing discussing technical issues associated with product installation and Specification. Specific training can be tailored to cover all aspects of the commissioning and service process.

To deliver consistency, Rinnai has invested in a successful combination of fully equipped training facilities as well as CPD courses supported by our mobile training vehicle. Courses can also be delivered in lunch time bite-size format.

So to increase your knowledge, skills, expertise and value with a growing product category trust Rinnai's unique and proven experience in innovative training.

Tony Gitting

Managing Director



Welcome to Training HQ



At Rinnai, we regard the professional development of installers, contractors, specifiers, designers and general market practitioners as key to our long-term goal of providing innovation to the market.

Our training facility vehicle and CPD training courses ensure key market personnel at all levels can benefit from nationwide training from our highly skilled team of technical experts. Ensuring they are up to speed with changes in legislation and product developments.

Chris Goggin

Associate Director



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Course 1 Rinnai Product Overview

Rinnai - global leader
Introduction to Rinnai energy saver convection heaters
The function and operation of the energy savers
Flueing
Introduction to Infinity water heaters
Instantaneous technology compared to Rinnai (continuous flow)
Infinity range of water heaters operation
Condensing technology
Infinity low NOx technology
Flueing guidance
Common headed flue system
Installation requirements
Temperature control
Basic system design
Commercial system design
Controls
System comparisons
Basic maintenance

Quick reference - Whats involved



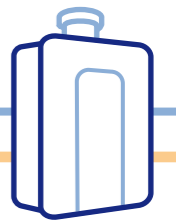
Course Length - Full day

Course Rational

This course explains the complete range of Rinnai heating products, their basic operation and installation. The candidates will be given an insight into the Energy saver convector heaters, the Infinity range of water heaters and controls. The basics of the system design for both the Energysaver and Infinity range will be discussed as well as the fundamentals of commissioning and servicing.

Insight

The course also covers our patented burner technology as well as our advanced heat exchanger system.



Course 2 Continuous flow and the future of water heating

- Rinnai - global leader
- The Principles of traditional DHW
- The Principles of continuous flow DHW
- How the Infinity range of water heaters operate
- Range of standard efficiency water heaters
- When the use of storage is acceptable
- Range of condensing water heaters
- Infinity low NOx technology range
- Flueing configurations
- Temperature control
- System design
- Benefits of modular system
- Sequencing
- BMS control options

Quick reference - Whats involved



Course Length - Full day (Bite-size available)

Course Rational

Overview of continuous flow technology. So that at the end the candidates will have a basic understanding of the function of the heaters and system design principles for efficiency and maximum performance.

Course 3 Intermediate water heater

- Rinnai - global leader
- Difference in DHW Systems
- The functionality of the Rinnai range of water heaters
- The identification and operation of all major components within the heater.
- Installation requirements
- Flueing
- Temperature control
- Controls
- System design
- Legislation
- BMS integration
- Warranty parameters

Quick reference - Whats involved



Course Length - Full day (half day available)

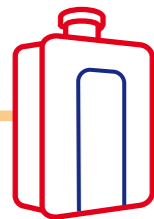
Course Rational

This course is designed to give a good understanding of the Infinity water heaters; functionality, major components and servicing requirements. As well as good level of understanding of the continuous flow hot water system and how to correctly size a system and design systems to satisfy regulatory and performance demands.



Course 4 Continuous flow - Excellence in design

- Rinnai - global leader
- Heat energy & sizing for capacity
- Non storage hot water solutions
- Storage solutions when to use and how to calculate
- Sealed system components & G3 requirements
- Basic hydraulics
- ACOP L8
- Building regulation (Part L)
- BMS integration



Quick reference - Whats involved



Course Length - Full day (half day available)

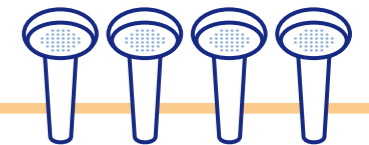
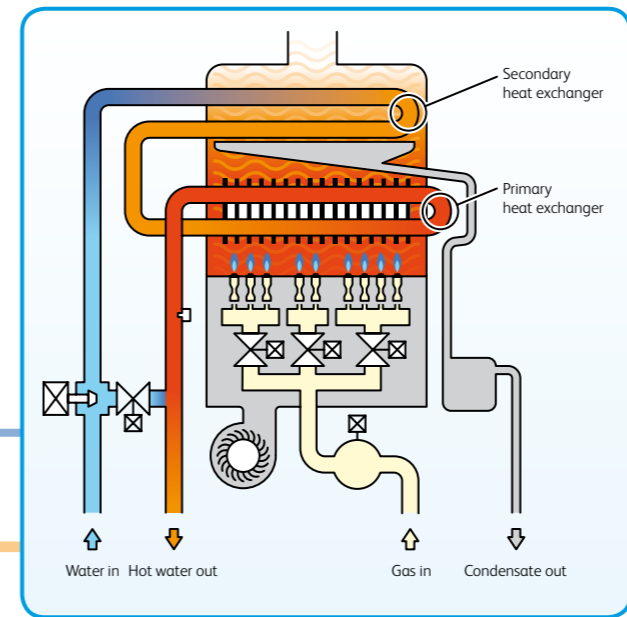
Course Rational

This course gives an in depth explanation into design parameters of a continuous flow hot water system, covering; heat energy and how it is used in sizing of a system, when to use and how to size a storage system. The components that have to be fitted to satisfy G3 requirements, basic hydraulics and an understanding of ACOP L8 and building regulation efficiencies.



Course 5 Service and fault diagnostics (Water heaters)

- Rinnai - global leader
- Continuous flow water heater functionality
- Water heater components, functions & error diagnostics
- Use of controllers for water heater fault interrogation
- Error codes and their meanings
- Basic system design
- System arrangement , cascade, storage & sequencing
- System design faults and implications on the water heater



Quick reference - Whats involved



Course Length - Full day (half day available)

Course Rational

Specific course aimed at maintenance and service personnel. This will give them a thorough knowledge of the functionality of the Rinnai water heaters as well as an in depth knowledge on the service and fault finding on the Rinnai range of water heaters; as well as being able to diagnose the difference between a system and a heater fault

Course 6 Service and fault diagnostics (Energy savers warm air units)

- Rinnai – Global Leader
- Energy saver functionality
- Major component identification
- Error codes and meanings
- Central timer control connections

Quick reference



Course Duration - 5 hours

Course Rational

A specific course aimed at maintenance and service personnel. To give them a thorough insight into the functionality of the Rinnai space heaters; as well as how to service and diagnose faults on the heaters.

Course 7 Understanding ACOP L8 and hot water design

- Rinnai - global leader
- ACOP L8 what is it and how continuous flow hot water systems help
- How it effects a continuous flow system
- How to utilise the close temperature control of Rinnai water heaters to their maximum
- Rinnai pure system functionality

Course Duration - 4 hours (Bite-size available)

Course Rational

This is a generic course aimed at installers, maintenance personnel and designers. This will give a basic understanding of the requirements of L8 and how it effects water systems. This will cover the use of low temperature systems; as well as the use of the Rinnai pure system for pasteurisation.

Course 8 Maximising renewable gain in hot water design

- Rinnai – Global Leader
- The Synergy between renewable energy and the continuous flow system
- The use of different renewable energy sources
- The design of a renewable pre-heat solution
- How to gain the maximum benefit from renewable energy

Quick reference



Course Duration - 4 hours (Bite-size available)

Course Rational

Aimed at demonstrating the combined use of a renewable energy as the prime source of maximising renewable gains as the Rinnai continuous flow system only provides energy when necessary.

Course 9 Continuous flow as a method of satisfying energy & regulatory demand

- Rinnai – Global leader
- Satisfying energy demand
- Reducing carbon
- Eco - design
- Compliance ACOP L8, Part L
- BMS controls for a smart future

Course Duration - 4 hours (Bite-size available)

Course Rational

This course highlights how Rinnai technology can be applied to satisfy the ever changing regulatoring horizon. Insight: Includes Part L, Eco-design, ACOP L8, G3 and many more.

