



RapidDry Industrial Drying Ovens

Energy and Time-Saving Solutions for Ceramics, Rubber and Wood



...a lifetime of reliability and support

Industrial Drying Ovens

The Barwell RapidDry is an intuitive energy-saving industrial drying oven, specifically designed for the rapid, effective and safe drying, heating or curing of product in the sanitary, rubber, construction and agricultural industries.

- An operator-friendly system that significantly reduces product drying time compared to traditional drying methods
- A technologically advanced solution which ensures uniform drying to regularly produce high quality product

- An energy-saving method which reduces operating costs and companies' carbon footprint
- A cost-cutting solution which reduces handling time as well as storage and production space
- A robust, safe, and reliable system of drying

barwell RapidDry
Industrial drying ovens



BENEFITS

Designed to meet the needs of the manufacturer

Barwell RapidDry is a completely modular system ensuring that a drying solution can be designed to meet the specific requirements of a customer's products and physical production facility.

Additional drying modules with internal conveyor rollers can be connected as and when necessary to increase the capacity of the oven.

The system also has an integral computer interface operators to simply program settings according to their needs.

It is equally adept at drying mixed loads as it is with large loads of the same product.

Reduced drying times and improved service to your customers

The Barwell RapidDry effectively dries in hours what has traditionally taken days.

This is due to the very latest innovative and safe microwave technology utilised by the Barwell RapidDry.

The RapidDry system allows quick reaction to large order demand and will reduce product lead times enabling greater stock control. This results in improved customer service and the opportunity for commercial growth.

Improved product quality

The advanced drying capability of the RapidDry intelligently heats product internally and on the surface rather than just on the surface as is the case with traditional drying methods. This quickly drives the water to the surface where it is removed by air flowing around the products. This is drying by evaporation.

The RapidDry eliminates the risk of surface burning and produces superior quality and longer-lasting finished product, therefore reducing rejects as uniform and consistent drying is always achieved.

Improved logistics and less handling

The speed of drying coupled with in-line processing enables producers to dramatically reduce the factory space allocated for drying and storage. It also means that stock handling and physical movement are minimised, resulting in reduced breakages and time spent moving from process to process. This allows for more efficient operational systems.

An energy-saving system

Traditional drying processing time is very slow due to low thermal conductivity causing substantial wasted energy.

The Barwell RapidDry overcomes these problems by effectively focusing its energy where the drying is actually needed.

It is intuitive enough to do this as the system adjusts its energy usage depending on the size, moisture content and cycle stage of the load. The resulting effect is a much lower k/Wh and BTU usage.

It is fitted with an energy usage monitor to calculate energy savings, allowing processors to evaluate their carbon footprint reduction.

Reduced downtime

On the rare occasions there is a machine fault, intelligent built-in diagnostic fault finding tools are able to pinpoint where a problem has occurred, significantly reducing operational downtime and any consequential costs involved in maintenance and servicing.

Ease of use and Barwell Support

The Barwell RapidDry is reliable, robust, and simple to operate with minimal training and set-up required.

Our expert Barwell Support team of highly experienced engineers are on hand to assist at any time during the lifetime of your Barwell.

barwell Support 
Advice | Spares | Service

SANITARY WARE SAVINGS

- Number of moulds reduced by approx. 60%
- Moulds last 4-5 times longer
- Uses “shop air” to remove moisture.
- Low working capital and running costs
- Up to 75% reduction in drying times when compared to conventional hot air drying ovens
- Up to 25% reduction in energy consumption when compared to conventional hot air drying
- In-line processing



APPLICATIONS

The Barwell RapidDry is ideally suited for drying in the ceramic industry.

- Newly made moulds
- Wet moulds after de-moulding
- Conditioning filled moulds prior to de-moulding
- Piece drying

The Barwell RapidDry is also ideally suited for heating in the rubber industry.

- Preheating solid rubber blanks prior to being formed and cured in a down stroking rubber press – this approximately doubles the output of each rubber press
- Preheating slugs of rubber before they are placed in a rubber moulding press



The Barwell RapidDry can also be used in the agricultural, construction and infrastructure industries.

- Ideal in the processing and storage of crops, such as, wheat, as it helps to prevent rot, which occurs when stored above 26% moisture by weight
- Time-saving process for the seasoning of wood logs, by reducing the this moisture reduction process from weeks to hours
- Also ideal for the above or wood used in construction and infrastructure e.g. railway sleepers



ENHANCED SAFETY

- Designed and built to have zero leakage.
- Four safety switches are fitted per door through a safety relay to ensure the doors are closed and locked before microwave power is applied avoiding
- Includes a double knit mesh seal around the door face to stop microwave energy leaking. The energy has to pass both sets of seals before leaking
- Photocells every metre along the oven to only power that section if there is a load
- Incorporates a special interlock key which must be in position and the doors closed before any microwave power is applied
- If the power is turned off the energy is completely removed, like turning off a light bulb
- Magnetrons used give a frequency of 2.45 GHz – a wavelength of 12.2cm



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