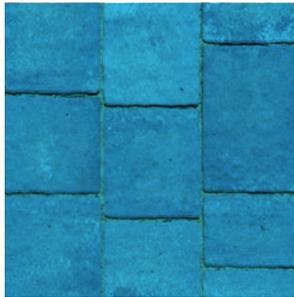


**CDS** | CURING

PIONEERING EXCELLENCE  
THROUGH EFFICIENCY



# CONCRETE CURING SYSTEMS

FOR THE STRONGEST  
CONCRETE PRODUCTS  
WORLDWIDE





CURING

## ADVANCED CONCRETE CURING TECHNOLOGIES

Over the last forty years, we've established a solid global reputation as a world-leading manufacturer of cutting-edge, energy-efficient technology for the concrete curing industry. From curing systems and curing racks to acoustic sound rooms and retractable canopy systems, all our products are designed to improve the quality of your concrete products, minimise downtime and maximise your profits.

Thanks to relentless redevelopment, we've remained at the forefront of the ever-changing curing and thermal technology industry. And our unwavering commitment to evolution through sustainability, durability, and innovation has seen CDS Curing rise to the top of a competitive global market.



# INDUSTRY LEADERS

IN THE DESIGN & MANUFACTURE OF CURING SYSTEMS,  
CURING RACKS & ACOUSTIC SOUND ROOMS

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- 6 | CDS Air Circulation Systems
- 7 | CDS VSG-2 Steam Generator
- 8 | CDS LPHW
- 9 | CDS Acoustic Sound Rooms
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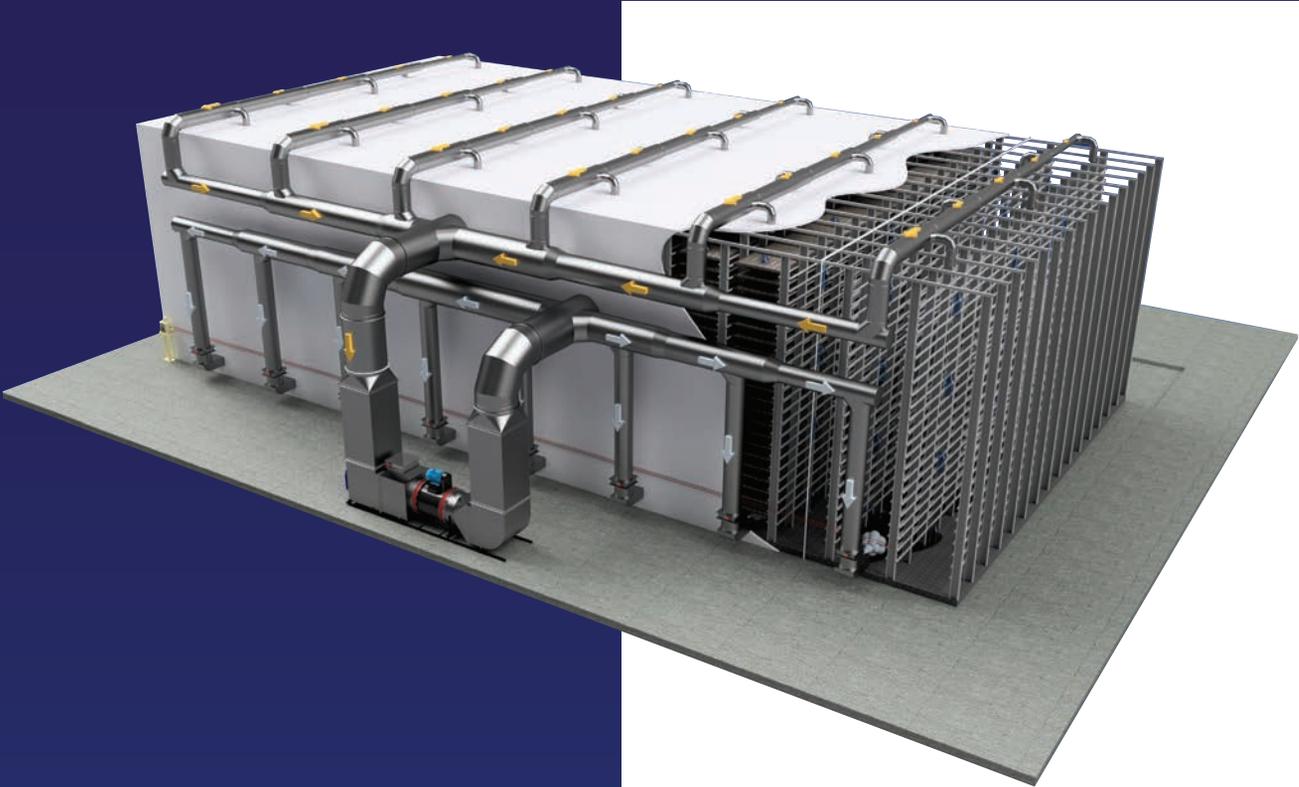


# CDS ENVIROCURE®

## IMPROVE THE STRENGTH & QUALITY OF YOUR CONCRETE PRODUCTS

CDS Envirocure® systems offer you an unprecedented level of control over the concrete curing process. Providing you with absolute authority over time, temperature, humidity, and energy consumption.

At its core, Envirocure® technology strives to deliver return by reducing outgoings, increasing profit margins and enabling you to realise projects with minimal energy consumption and environmental impact.



# ENVIROCURE® TECHNOLOGY

Our patented Envirocure® technology uses separate heat generation and water atomisation to generate the ideal heat and humidity for concrete curing, helping you achieve the optimal curing environment, lower your cement content, and reduce your costs.

## CDS ENVIROCURE® 'BIG ROOM' SYSTEM

The Big Room System is designed for larger-scale automated or semi-automated manufacturing. The Big Room configuration means product can enter the controlled curing environment directly after manufacture and remain in the curing environment until ready for packaging and shipping. Loading and unloading equipment is contained within the curing environment, and the system is optimised for consistent, high-quality manufacture.

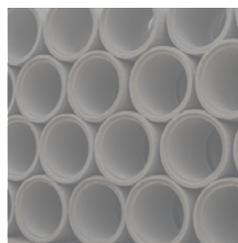
## CDS ENVIROCURE® II 'INDIVIDUAL LANE' SYSTEM

The Envirocure® Individual Lane System is designed for optimum flexibility. The system allows for different climatic parameters in each kiln/lane, enabling different product groups to be cured at differing temperatures and humidity. So you can produce retaining wall, block and paving on the same shift with temperatures and humidity levels to suit each product.

Each product group is loaded individually into each kiln/ lane with an individual lane system before the curing process is initiated.

## BENEFITS

- Early concrete strength gain and improved product quality
- Reduced curing time with less breakage
- Available as a 'Big Room' or 'Individual Lane' system
- Accurate temperature and individual humidity control
- Efficient air circulation, creating a de-stratified, consistent condition
- Efflorescence reduction
- Reliable product strength and durability
- Precise temperature and humidity control
- A well-insulated structure
- Temperatures from 20°C to 60°C/68°F to 140°F
- Relative humidity from 50% to 95%
- Continuous 24/7/365 performance
- Cement reduction
- Energy efficient system that minimises operating costs



# CDS AIR CIRCULATION SYSTEMS

## TEMPERATURE-CONTROLLED WARM AIR SYSTEM

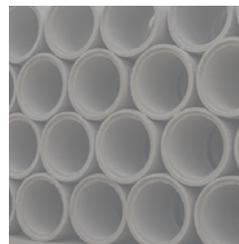
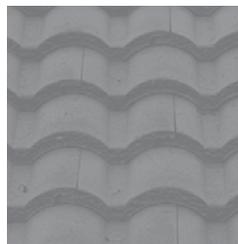
The CDS state-of-the-art Air Recirculation System ensures maximum efficiency, low running costs and minimal environmental impact.

CDS specialises in the design and manufacturing of Air Circulation Systems for curing treatment within the concrete industry. Each bespoke system is individually and specifically designed to suit the different requirements and needs of each customer. With little or no maintenance costs and the system's low energy requirements, the "CDS Air Circulation System" becomes a cost-effective solution for improving the curing of concrete products. In addition, the design enables you to install additional humidity injection and temperature control to the original installation later.



## BENEFITS

- Consistent curing temperature and humidity conditions
- De-stratified airflow
- A non-condensing environment prevents corrosion and damage to concrete products
- Better quality of product with early strength gain and consistent colour
- Reduced efflorescence
- Lower energy costs
- Optional humidity injection



# CDS VSG-2 STEAM GENERATOR

## STEAM AT A LOWER COST

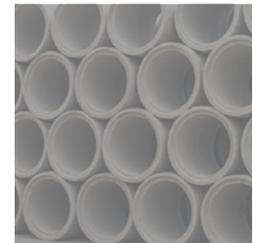
The CDS Vapour Steam Generator has been specifically designed for the concrete industry. The system is designed with the latest combustion technology available on the market today and is compliant with safety and emissions standards.

Fuel savings alone can make cost reductions equivalent to the capital investment in the machine within a single year. Suitable for internal or external pre-cast facilities, with a compact size suitable for portable use on-site, the CDS Vapour Steam Generator offers you several advantages.



## BENEFITS

- Natural gas, propane, or fuel oil firing options
- Low gas pressure requirements from minimum 20mbar to maximum 200mbar
- Low electrical power requirements
- Space-saving design
- Virtually silent operation
- Low maintenance design



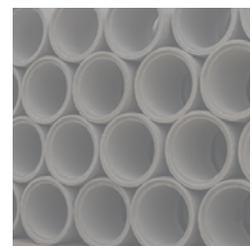
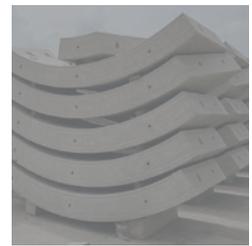
# CDS LPHW

## RADIANT THERMAL CURING

The CDS LPHW Curing System uses high-efficiency low/medium pressure hot water boilers and thermal fluids contained within a carefully designed network of pipes linked to a centralised pump to generate accurately controlled radiant heat in applications which require little or no airflow.

## BENEFITS

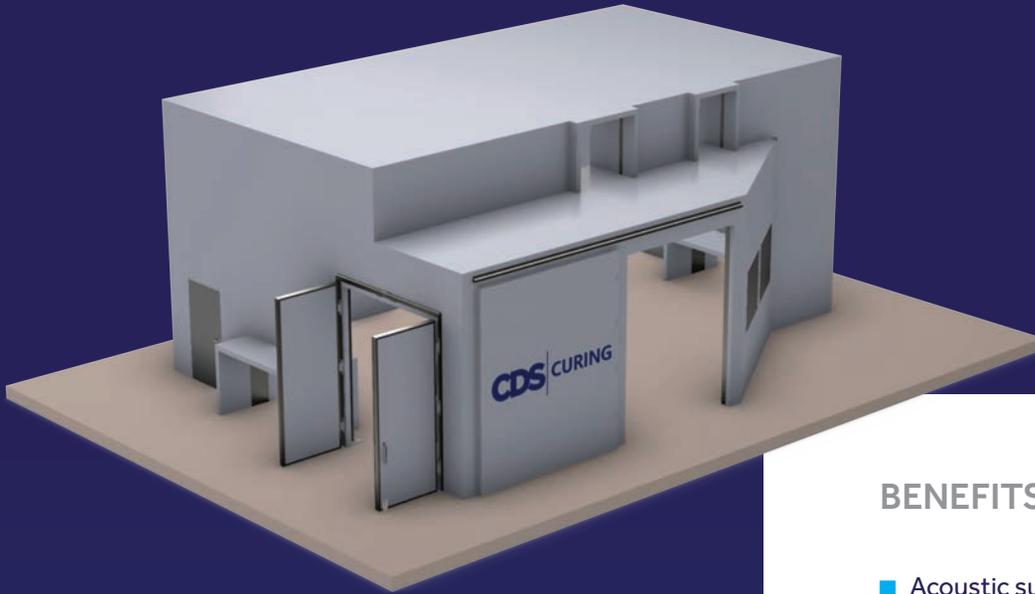
- Product cure times are minimised with product strength guaranteed prior to the next stages of manufacture
- The system is suited to a variety of fuels, including natural gas, LPG, various fuel oils and Biomass
- The system is supplied either in a convenient pre-modified container or on a Skid to save time and cost in set-up and commissioning
- The system can be fitted with optional maturity Curing Control Software which optimises the time and energy used in curing various products in addition to providing detailed historization for quality control purposes



# CDS ACOUSTIC SOUND ROOMS

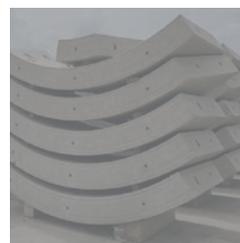
## IMPROVE THE WORKING ENVIRONMENT

CDS design and manufacture Acoustic Sound Rooms and Enclosures for industrial noise control, creating a safe and comfortable working environment from which the operation can be monitored and controlled.



## BENEFITS

- Acoustic surveys and certification to meet health and safety regulations
- Designed to meet the specific needs of your operation
- Built-in overhead cranes to assist with mould changes and maintenance
- Raised viewing platforms for fantastic views of your machine and the entire factory
- Customer specified dB reduction levels
- Increased safety for all operatives



# CDS HUMIDIFICATION & ATOMISATION SYSTEMS

## HUMIDITY WITH BENEFITS

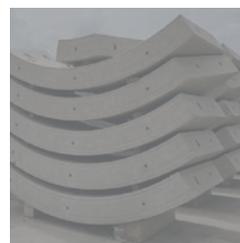
The CDS Humidification System is ideal for increasing the level of relative humidity within our range of curing systems. This is achieved by introducing atomised water vapour into the process/system without causing wet areas or water drop out.

The CDS Humidification System produces a highly controllable ultrafine fog (down to 1micron). When integrated with humidity sensors for automated control, the relative humidity in the curing atmosphere can be maintained precisely and consistently for optimum curing.



## BENEFITS

- Maintain high relative humidity up to 98%
- Saves 90% compared with steam energy
- Easy to operate and control
- Self-cleaning every cycle
- Complete evaporation – no wet floors
- Can be duct mounted on a lance or in open chambers
- Smaller water droplets <5 micron
- Mains water pressure – no pump
- Consistent quality of atomisation



# CDS RETRACTABLE CANOPY SYSTEMS

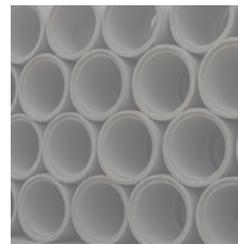
## PRODUCT PROTECTION

CDS Retractable Canopy Systems are the perfect solution to provide portable protection for concrete products during the curing process.

Our canopies can be custom-made to meet your specific production requirements. Our Canopies are easily deployed using either a freestanding telescopic frame or suspended from a permanent overhead rail structure. The complete seal and insulation properties of the canopy retains heat and helps maintain a perfect environment for curing.

## BENEFITS

- Protects fresh concrete from weather when product is demoulded
- Enhanced control over the curing environment
- Prevents heat loss during accelerated curing
- Simple and quick to deploy
- Easy to store out of the way when not in use



# MATURITY & QUALITY CONTROL SYSTEM

## IMPROVE YOUR PRODUCTIVITY & CONSISTENCY

A proven system to optimise energy savings, strength predictability and productivity in the production of precast concrete.



## BENEFITS

- Rapid payback on initial investment
- Increases plant productivity and capacity
- Improves quality and consistency
- Fully traceable individual unit data can be provided with the delivery documentation
- Handles full range of concrete mix designs/recipes



# RACKING SYSTEMS

## CURING CHAMBERS FOR THE CONCRETE INDUSTRY

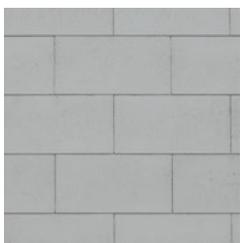
CDS supply a wide range of curing racks designed to optimise the efficiency of the curing process, each designed to exact customer specifications and requirements.

Manufactured specifically for the curing industry, the racking system's insulation properties will help minimise heat loss and reduce your energy costs. The safe, rigid structure will improve the efficiency of your system and curing capacity.



## BENEFITS

- High insulation properties minimise heat loss and reduce energy costs
- Suitable for fully automated or manual loading systems
- Manufactured from a specialist grade galvanised material providing superior protection from corrosion
- Optimised storage/curing capacity – racking designed specifically for the curing industry
- Self-supporting structure is rigid and safe yet quick and easy to assemble – can easily be self-assembled
- Manufactured according to DIN EN ISO 9002 (of EU derivation)



# CDS SUPPORT SERVICES

## KEEPING YOUR PLANT POWERED & PROTECTING YOUR PROFITS

CDS curing systems are built to the highest standards. As one of the world's leading manufacturers of curing systems for the concrete industry, we've successfully installed hundreds of systems around the globe.



## GUARANTEED PERFORMANCE

Whether you need support over the phone or in person, our fast response times and knowledgeable technical team will ensure your production problems are dealt with quickly and any downtime is minimised. From technical advice to spare parts, our engineers will always be on hand to help you identify any problems and get your system operating efficiently.



## PROTECTING YOUR ASSETS

From system repairs to scheduled maintenance, we're here to support your plant's productivity. We understand your industry is a nonstop business, so you need immediate support when you have an issue. That's why our service team travel globally to carry out annual service checks and attend to system repairs needing specialist engineer support.



# ALTERNATIVE ATMOSPHERE CURING

## DELIVERING SUSTAINABLE INNOVATIONS TO THE GLOBAL BUILDING MATERIALS MARKET

Along with providing your manufacturing plant with cost-effective systems, improved product strength and an accelerated curing process, at CDS, we're committed to pioneering sustainable alternatives to lower the cement industry's carbon and energy footprints. With our vast knowledge base and decades in thermal and industrial processing, we've implemented various CO<sub>2</sub>-reducing systems globally and remain at the cutting edge of alternative atmosphere curing.

CO<sub>2</sub>





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