

CDS Group is widely recognised as the world’s leading manufacturer and supplier of Process Dryers to the Ceramics and Allied Industries. Based in Stoke-on-Trent, England, CDS Group has built up a wealth of experience spanning 30 years supplying industrial dryers to a multitude of the world’s leading ceramic producers in all sectors of the industry.

To further improve the drying speed of ceramic products, CDS has developed a patented R-02™ drying technology that uses energy efficient dry super-heated steam to replace the air/oxygen from the drying process thus improving the thermal efficiencies and yields of ceramic dryers.

### **R-02™ drying advantages include:-**

- **Specific heat of steam is twice that of normal air, hence it can transfer more than twice the amount of heat for the same mass air flow.**
- **Viscosity of steam is approximately half that of air at the same temperature creating a much greater effect, in particular on difficult shaped products.**

### **The R-02™ benefits as recorded by customers have been as follows:-**

- **Lowest possible energy consumptions, up to 25% less than best recorded conventional drying times.**
- **Shortest possible drying times for all ceramics.**
- **Zero percentage drying losses.**
- **Reduction of energy requirements.**
- **Capability to accept difficult One-Piece products, much earlier into the dryer, vastly reducing work in progress and consequently saving valuable floor space.**





The CDS R-02™ dryer has now evolved to be built in a radically different way to conventional dryers. A number of key build features now include:-

- Uniquely designed main steelwork structure and interlocking high density composite panel system.
- Specially formed supply and recirculation ductwork system to eliminate any conventional air or superheated steam gas loss.
- Purposefully designed supply and recirculation fans to eliminate air leakage.
- Much improved door design and ease of operation.
- Stoichiometric designed modulating gas & air burners.
- Introduction of atomised water vapour

CDS Group also provide the following services and equipment for the sanitaryware industry:

- Environmental Control
- Tunnel Dryers
- Glaze Dryers
- Casting Systems
- Mould Dryers
- Waste Heat Recovery Systems

