



Ceramic Services, Inc.

www.kilnman.com

215 245-4040

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Dryer Update

Vesuvius McDanel-Beaver Falls installs a dryer solution from Ceramic Services, Inc.

Vesuvius McDanel: A World Leader in ceramic tubes and rods has recently installed a Ceramic Services Inc. drying system in their Beaver Falls Facility.

The Problem: Vesuvius - McDanel had recently doubled the size of their current dryer for ceramic rods and upgraded the fan and heating through a local HVAC contractor. After the upgrade the dryer would not reach temperature, nor would it dry the ceramic rods as part of their pre-firing process.

The Solution: A complete rebuild of the current dryer with:

- Positive pressure drying chamber
- Non turbulent air flow
- Relative humidity control
- Dual Heat Exchangers
- 200 Degree F. max. heat
- Control system for each unit
- Dual sided control for Air, Temperature, and Humidity
- Dual circulating air blowers
- Dual control cabinets

The Ceramic Services Drying System pictured below featuring:

- Redesigned and Rebuilt low turbulence duct flow system
- Two circulating air blowers complete with 480V three phase motors
- Two control cabinets which include the motor starter for the fans as well as controls for relative humidity, temperature, and static pressure.
- Two burners, blowers and flame monitors.
- Two heat exchangers
- Two motor controlled dampers for each side controlling humidity and static pressure.
- Two water misting nozzles and shut off solenoids.



The Result: A complete functional drying system with two complete drying sections that are independently controlled. The production backup has now been eliminated. The drying efficiency of the company's' advanced ceramics has been greatly improved.