



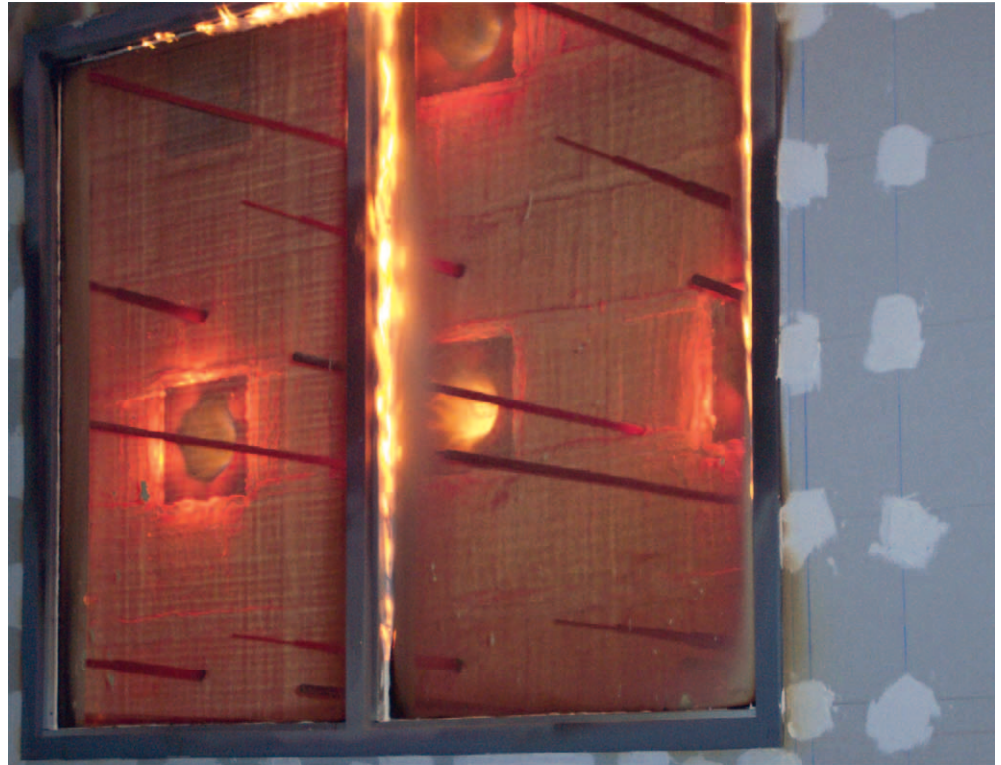
FIRE TEST FURNACES

Horizontal and Vertical Panel Furnaces

About Us

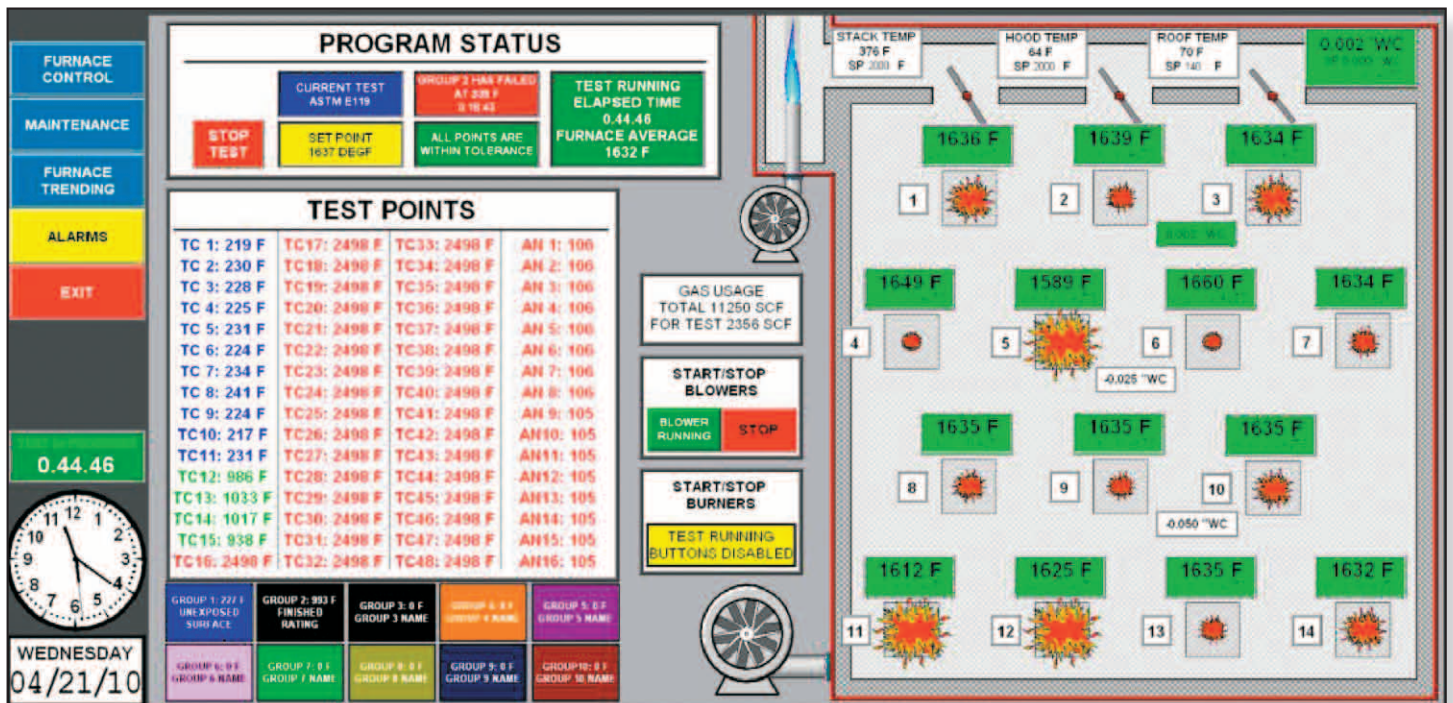
Armil CFS designs and builds custom horizontal and vertical test furnaces that provide high temperature exposure for various building and construction materials to meet manufacturers qualification requirements for ASTM E119, ASTM E814, NFPA252, EN1366, ISO834, IMO A.754, UL263, UL1709, and UL2079.

Our customer list includes industry leaders such as Underwriters Laboratories, 3M Company, United States Gypsum and Specified Technologies, Inc.



E119 — Wall panel furnace FRONT, window assembly test panel

Typical wall test furnace control screen



FIRE TEST FURNACES

Horizontal and Vertical Panel Furnaces

**Small Scale
Floor/Ceiling
Combo Furnace**

*Internal
chamber view*

Horizontal test sample



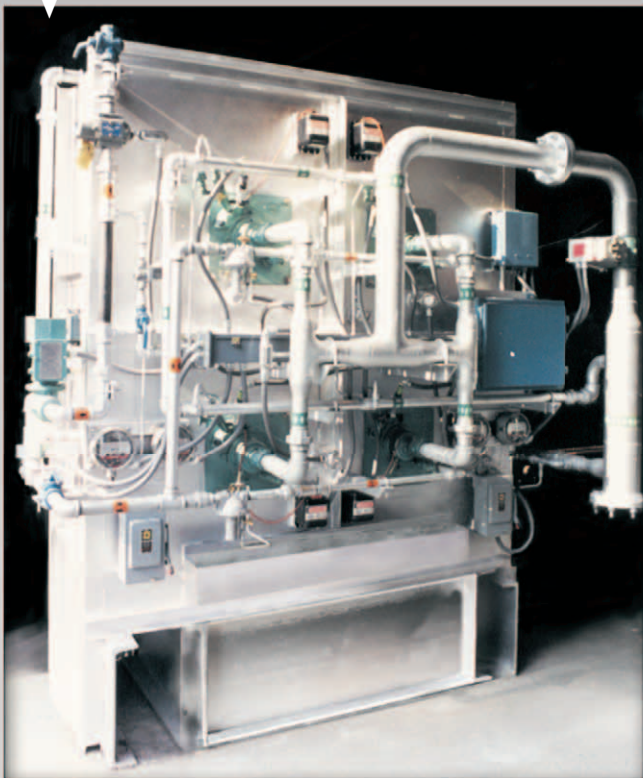
External view



- Multiple burner ports
- Low thermal mass furnace lining
- Viewing ports
- Multiple thermocouple ports

Small Scale Vertical Furnace

Back



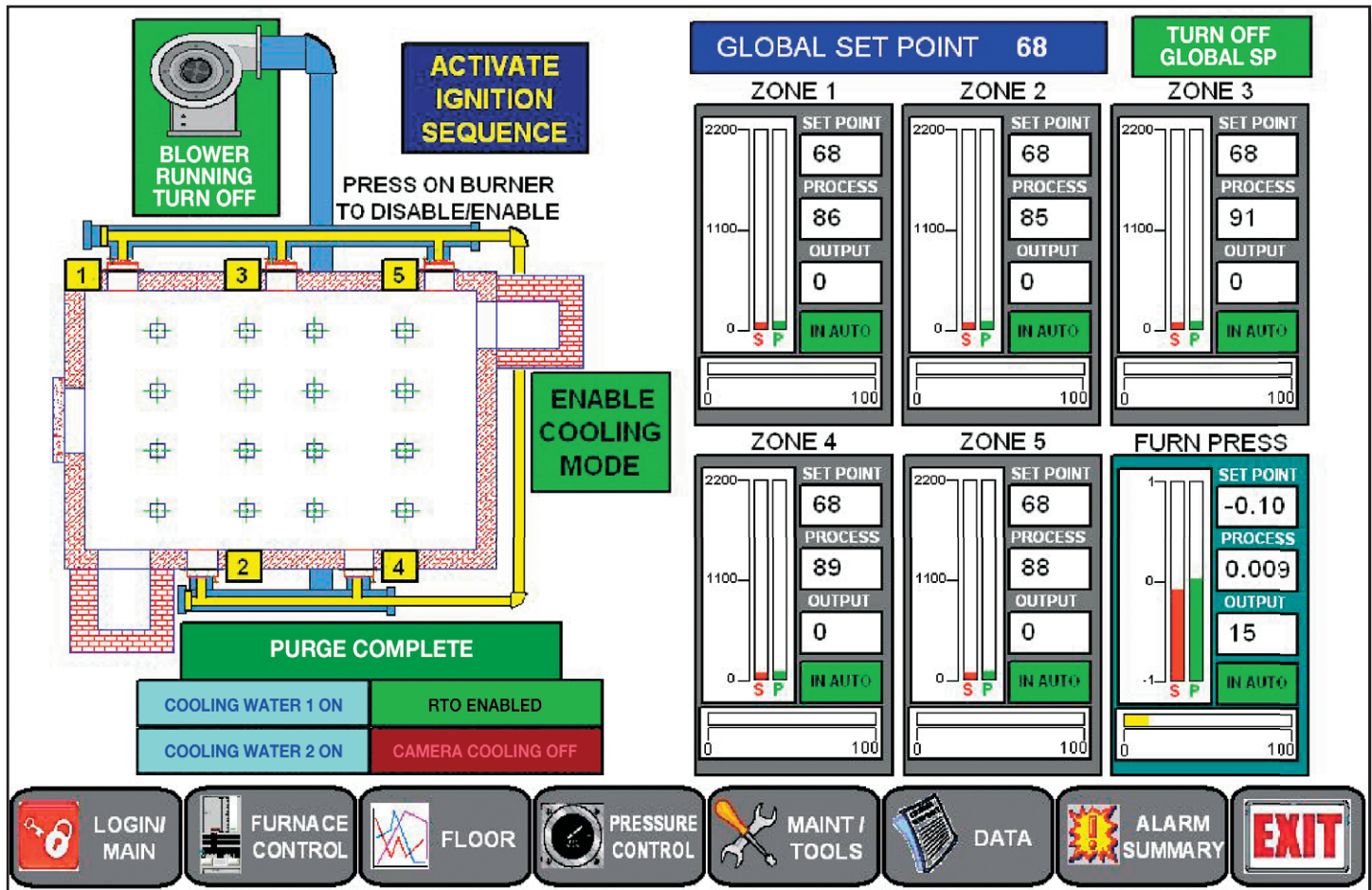
Front



FIRE TEST FURNACES

Horizontal and Vertical Panel Furnaces

Typical vertical test furnace control screen

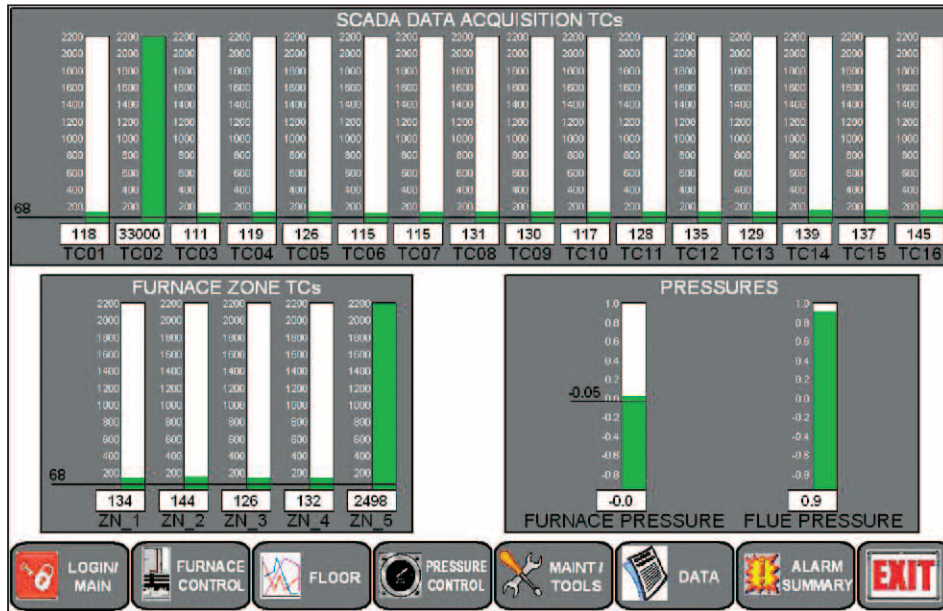


- Single sheet report generation containing all test data
- Remote diagnostics and technical support
- System will raise alarms to notify the operator of bad thermocouples, deviations, faults, etc. Alarms and events can be sent through email.
- Touch screens can be used for the operator interface
- Remote monitoring
- Real-time and historical trending
- Microsoft Visual Basic for Applications (VBA) integration
- Operator/User linked security, can be tied to Windows user permissions
- Low thermal mass furnace lining
- Automatic temperature curve tracking
- Automatic pressure control
- Special "Cooldown" mode to prepare the furnace for the next test
- Video via furnace-mounted camera systems
- All test curves stored in memory
- Automatic data acquisition; data can include:
 - ◆ Target test curve
 - ◆ Actual test curve
 - ◆ Up to 128 test sample points, measuring temperature, pressure, etc.
 - ◆ Test type, customer information, etc.

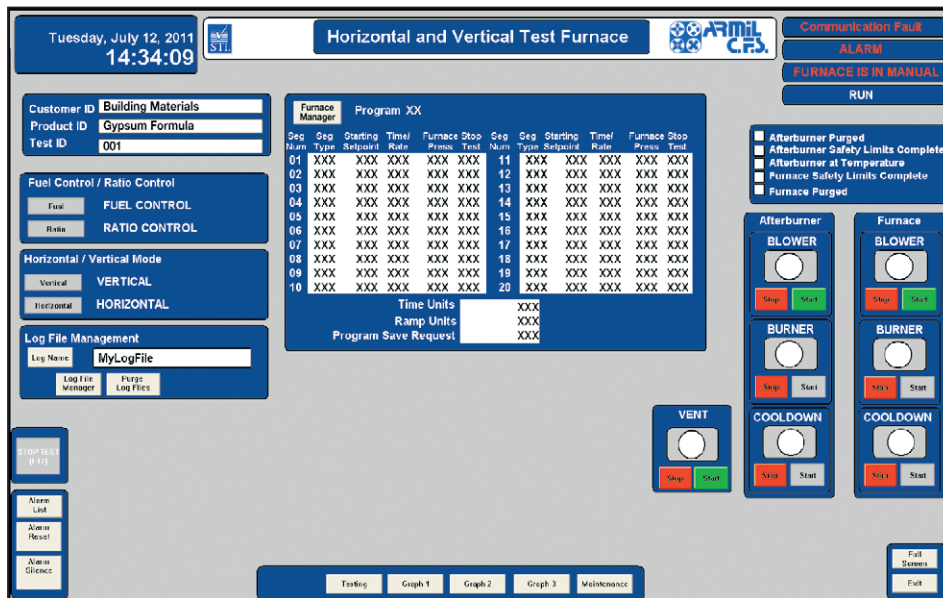
FIRE TEST FURNACES

Horizontal and Vertical Panel Furnaces

Typical SCADA data control screen



Typical test furnace control screen



Manufacturing

Armil CFS is a custom manufacturer of high temperature processing equipment, including furnaces, kilns, and incineration equipment. All fire test furnaces are designed around each customer's specific test requirements for temperature, pressure and data acquisition. Our test equipment is built to last, utilizing heavy steel construction, with combustion and control components supplied by leading manufacturers. Highest quality refractory is installed by our veteran skilled craftsmen.

Armil CFS is a distributor and installer for leading U.S.A. manufacturers of high temperature insulation, refractory products, combustion and data acquisition.

Armil CFS provides service on all types of high temperature equipment.



Built with pride in the U.S.A.



Armil CFS, Inc.

15660 La Salle Street, South Holland, IL 60473
708-339-6810 office • 708-339-0517 fax
email: info@armilcfs.com
www.armilcfs.com

© 2011, Armil CFS, Inc. • Bulletin ACFS-110

