**Controllers**

**Atmosphere** Vacuum Gas Nitriding

**HMI and Control In One**

- **PLC Push Button Control**
  - Communicates with PLCs via RS-232 serial connection (DF1 or Modbus) or Ethernet (Modbus)
  - Screen Editor
    - Runs on Windows Computer for creating screens and mapping
  - PLC I/O
  - Runtime Software
    - Executable for running software on controller screens
  - User Defined
    - Status Driven
      - I/O Reference

- **Remote Control**
- **HMI and Control In One**
- **Complete Furnace Control**

- **Remote PC Configuration and Recipe Builder**
- **HMI/Data Acquisition**
- **Process Control**

- **Color Touch Screen**
  - Agitators
  - Limit Switches
  - Timers
  - Flame Screen
  - Fans

- **Easy To Display Mechanical Components**
  - PLC Interface
  - Controller Interface
  - Digital Chart Recorder
  - 3 Screen Sizes

- **Status/Position Display**

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**Controller Features**

- Maintenance Tracking Database
- Configurable and Expandable I/O
- Remote Control
- AMS 2750 E Compliant
- Remote PC Configuration and Recipe Builder
- Recipe Controller for Precise Process Control

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**9220 Vacuum**

- Guarantee Soaks on Load TCs
- Outgas Protection
- Direct Connection to Vacuum Gauge
- Integrated Vacuum Controller Communications
- Multiple PID Sets with Switch Points
- Overshoot Suppression – Fuzzy Logic

**9210/9215 Gas Nitriding**

- Flow Control (N₂, NH₃, DA, CO₂, END0, H₂)
- Automated Back Pressure Control
- Precise Control of Compound Layer
- Kn and %DA Control
- Automated Single and Two Stage Processes

**9205 Atmosphere**

- Percent Carbon and Temperature Control
- Built in Quench Control and Timer
- Programmable 300 24 Step Recipes
- Probe Conditioning and History
- NDIR Gas Analyzer Integration

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**Contact Information**

513.772.0060 phone
513.772.9466 fax

www.supersystems.com  800.666.4330

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