

Atmosphere Vacuum Gas Nitriding

HMI and Control In One

•Easy To Display Mechanical Components

 PLC Push Button Control - Communicates with PLCs via RS-232 serial

Ethernet (Modbus)

connection (DF1 or Modbus) or

- 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

• PI C for I/O

HMI/Data

Acquisition



Complete

Furnace

Control

- PLC Interface - Controller Interface

Process

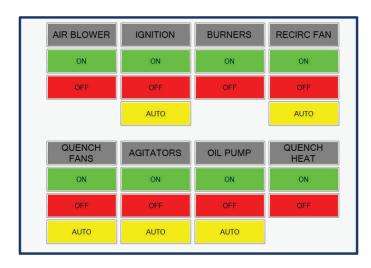
Control

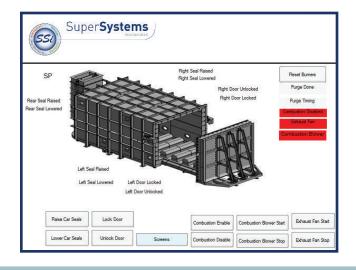
- Digital Chart Recorder - 3 Screen Sizes



Controllers

- Color Touch Screen
 - Agitators
 - Limit Switches
 - Timers
- Flame Screen
- Fans
- Status/Position Display





Controller Features

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

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, ENDO, Hall
- 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
- Built in Quench Control and Timer
- Programmable 300 24 Step Recipes
- Probe Conditioning and History
- NDIR Gas Analyzer Integration

Product Technical Brief www.supersystems.com 800.666.4330