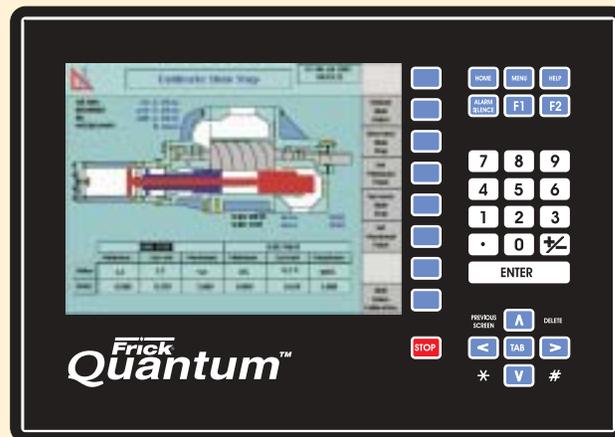




CONTROL PANEL ADVANTAGE

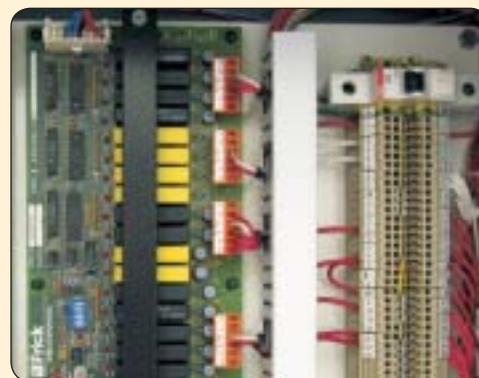
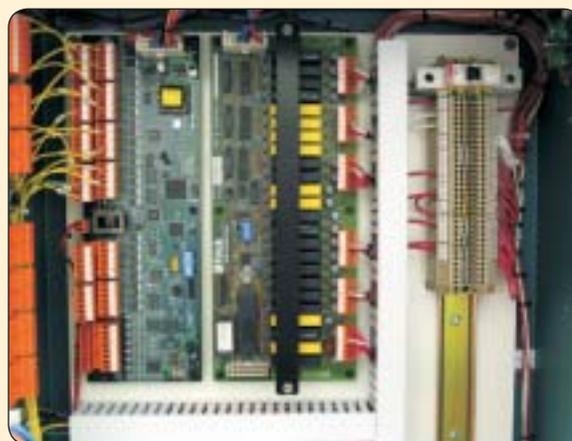


The Frick® **Quantum™** Control Panel is the most technologically advanced screw compressor control center in the world today. Powered by a high-speed PC-based processor, it is a quantum leap over competitive microprocessor control panels.

Hardware - The Heart of the Panel

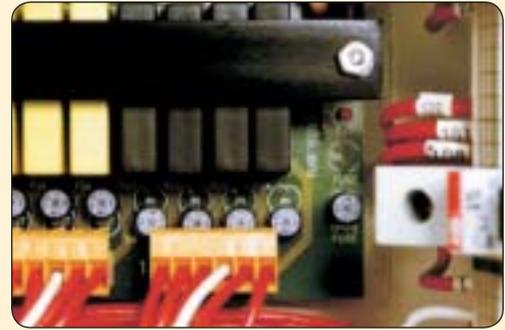
The **Quantum™** Control Panel incorporates hardware features & technology proven in millions of applications.

- **PC-Based Industrial Controller.** The high-speed processor provides speed and processing capability far surpassing competitive microprocessor offerings.
- **10.4" Active Color VGA Graphics Display.** The 10.4" LCD display offers a high contrast, crisp, clear display of compressor information and status with a superior viewing angle.
- **Input/Output Upgrade Capability.** Additional I/O can be easily installed in the field. This feature provides flexibility for future engine room upgrades and changes. No longer will you be constrained by the manufacturer's limited I/O capability.
- **Two Serial Communication Ports.** These field-selectable ports allow you to choose from a combination of RS-422, RS-485, or RS-232 port configurations for both interpanel and external communications.
- **Circuit Breaker Protection for Main Power.** Forget about ever having to change blown fuses due to power spikes and other line voltage disturbances. If a disturbance occurs, you will be back on line with the flip of a switch.
- **UL, cUL, CE, and ISO 9001 Certifications** 
- **Flexible Analog Inputs.** Setup is easily changed in the field to accept 0-5 volt, 1-5 volt, 4-20 mA, or ICTD inputs.
- **Long Life Lithium Coin Cell Battery.** Provided for power backup to the time/date clock. When this battery loses its charge, you visit your local department store. No special ordering required!
- **Communication Activity and Diagnostic Lamps.** Numerous LED lamps simplify troubleshooting and provide visual indication of proper component operation. Code readouts also appear on the display if an internal component problem is detected.
- **NEMA 4 Enclosure.**



- **Flash Setpoint Memory.** All setpoints are stored on a Flash chip which requires no battery backup, and can be downloaded to a flash card for storage. You will never again lose a setpoint or have to reenter setpoints due to power loss. Setpoints can be field programmed within Frick® defined limits. A notice is displayed if setpoints are entered outside of the defined ranges.

- **Replaceable Input and Output Modules** with individual replaceable fuses, *on-board tester*, and spare fuse.



Software - Bringing It All Together

All of the impressive hardware features would be wasted if we did not bring them together with a superior, user-friendly software package. Extensive discussions with contractors and end users have allowed us to develop a software package that is nothing short of spectacular.

- **Intuitive Operator Interface.** All of the Quantum™ screens are menu driven and easy to use and understand. Help screens and prompts are available to assist in setup or monitoring of system information. Calibration and operation instruction can be accessed on-line via the Help key. Password protection is also provided.

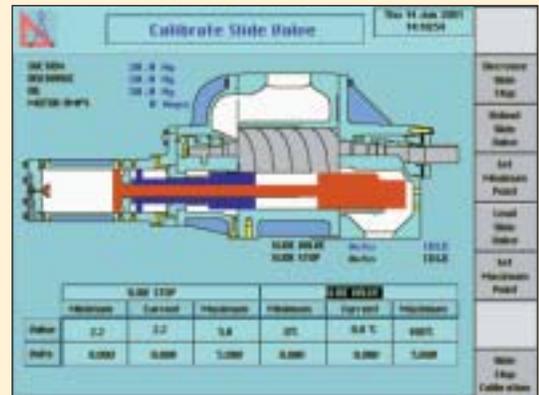


- **Software Diagnostics.** Numerous diagnostic features have been incorporated to assist in troubleshooting. They include: sensor short/open, setpoint input out of sensing range, DC and AC power monitoring, and memory error sensing.

- **Multiple Capacity Controllers.** Two capacity controllers are available for each of the following input parameters: suction pressure, process temperature, discharge pressure, and discharge temperature. This feature provides application flexibility for auto set-back control and control reset for changes in modes of operation.

- **Override Controls.** All safety and controller functions can be programmed to unload the compressor within maximum safety and control parameters.

- **On-screen Calibrations.** Sensors, motor current, slide valve and slide stop are calibrated on screen with easy to understand graphics. Potentiometer "tuning" has been eliminated.



- **Shutdown Notification.** Display backlight flashes on shutdown to attract attention in noisy engine rooms.

- **Foreign Language Displays.**

- **Selectable Pressure and Temperature Units.**

- **Programmed compressor sequencing and condenser control are provided.**

- **Industry standard communication protocols.**

- **Real-Time and Historical trending.** Selected data and selected time periods can be viewed in either an X-Y trending chart or a tabular chart.

- **Ability to add flexible digital and analog inputs .** They can be used for monitoring and setting alarms.

The **Quantum™** control panel provides nearly limitless expansion capabilities for growth to keep pace with control technology. That's why we say.....

You can't beat the system if it's all Frick!



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