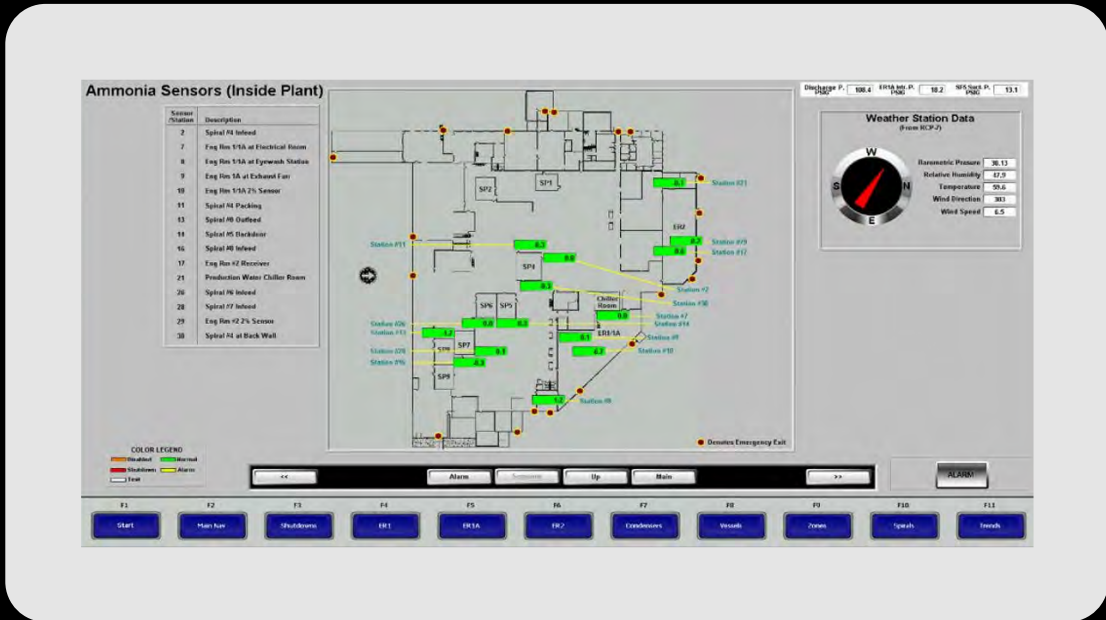


rPRO

Enhanced Control Platform Recognizable Automation & Integration



Part of the VaCom
Standard Configurable
Smart Refrigeration Solutions



Seamless Operation & Integration

VaCom's Industrial Refrigeration Control Systems package reliable industrial-duty controllers with modern motor controls powered by carefully researched and proven control strategies. This effective combination proves to be dependable, serviceable, and high performing, with minimal operating costs delivering a solution with best-in-class total cost of ownership. Paired with **EnergyDashboard®** performance monitoring, owners can benefit from continuous efficiency management, system diagnostics, real-time notifications, and complete system optimization.

Achieving Balance

VaCom control systems are carefully designed to optimize the performance of a refrigeration system over a wide range of operating conditions met throughout its lifespan. Well thought out control systems address the inefficiencies inherent in most refrigeration systems; designed for maximum load but operating most of the time at part-load and off-peak conditions. Our controls provide automatic and balanced operation of all refrigeration system components including compressors, condensers, evaporators, and other equipment to seamlessly deliver peak performance and low operating costs.

VaCom not only provides the tool to continuously monitor system performance, unlike our competitors, we act. Our in-depth refrigeration knowledge from years of research, testing, analysis, and computer simulation generates control systems that deliver results!

Versatile

VaCom's controls integrate a wide variety of hardware, software, power components, and control strategies. Our systems can be utilized in numerous industrial refrigeration applications for either new construction or retrofit projects.

Equipment & Systems

- Screw Compressors
- Recip Compressors
- Condensers
- Air Units
- Vessels
- Exhaust Fans
- Variable Speed Drives
- Spiral Freezers
- Refrigerant Monitors
- Underfloor Heating
- Battery Chargers
- Power Monitoring

Communication Integration

- IIoT
- Auxiliary Control Panels
- Leak Detection Systems
- Power Meters
- Variable Speed Drives
- Electronic Valve Controllers
- Bitzer
- Frick
- GEA
- Mycom
- M&M
- Vilter

APPLICATIONS

Compressor Control Panel



Configurable to control all major manufacturers' compressor packages including VFDs and variable Vi machines.

Heat Rejection Panel



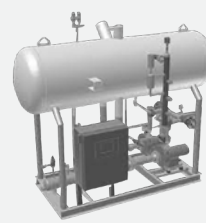
Designed to withstand the heat and humidity for close proximity to Evaporative Condensers and Cooling Towers while delivering energy efficiency for heat rejection.

Air Unit Panel



Room and product temperatures and humidity are precisely controlled through proven operational strategies with configurations for multiple modes of refrigeration system design.

Vessel & Pump Panel



Delivers safe and efficient control of vessels and pumps to keep refrigeration systems operating optimally during varying conditions.

Refrigeration System Panel

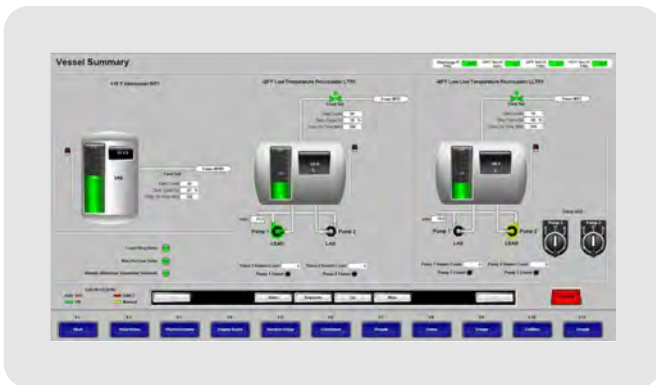


Complete control and monitoring of refrigeration system components customized to fit any refrigeration design.

Allen-Bradley Control Platform

VaCom maintains dependable standard platforms which incorporate consistent and carefully documented control strategies, implemented in the language for each controller. Allen-Bradley PLCs are preferred by numerous companies for industrial process automation, thus, the VaCom rPRO is the cornerstone in our product portfolio. Programs for CompactLogix®, Micro800®, and ControlLogix® controllers are continually enhanced and maintained for today's largest facilities.

To compliment the VaCom standard configurable smart refrigeration solutions, standard HMI programming is provided using Rockwell FactoryTalk® View.



Powerful Interface

Information is power and VaCom's user interface functions provide dynamic insight to your system.

Features include:

- Alarm display and historical data logging
- Notifications tailored to owner requirements
- Real-time and historical trend charts
- Graphical visualization of facility layout and equipment to provide rapid system assessments and troubleshooting
- Detailed communications layout providing realistic plant view with enhanced real time status information

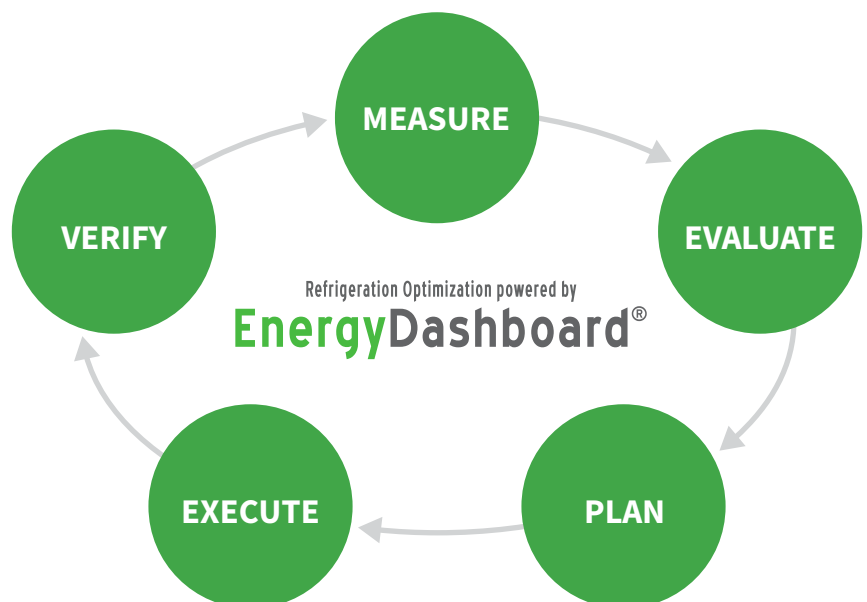


Refrigeration Optimization System

VaCom's Building Management Systems energy and performance monitoring service for refrigeration systems will help ensure optimal performance is maintained over your equipment's lifespan.

- Continuously track system efficiency
- Benchmark plant performance
- Identify energy-based production metrics
- Display real-time results
- "Drill-down" and aggregation views
- Monitor equipment health

What gets measured gets better!





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Subject to change // 3.2023