



Volume 25 – Issue 1 – July 2021

"Advanced technological solutions at an affordable cost."

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Ideas for articles of interest?
Please submit articles or requests to:
lauren.s@logictechnologies.com

VFD SYSTEMS BY PAUL JASCZYNSKI

We are pleased to announce that we offer Variable Frequency Drive Systems to run your motor loads more effectively which allows you to save energy and money in the long-run.

Options Include:

- Various panel enclosure options (Nema 12, 4, 4X, 3R)
- Enclosure Cooling
- Main Lugs, Main Breaker or Fusible Disconnect
- VFD sizes from one HP to 100 HP
- Line and Load Reactors
- Bypass Contactors
- Panel UL Approved

- VFD's Programmed and Tested!
- Door-Mounted Programming Units
- Fast Delivery!
- Five Year Manufacturer's Warranty!



Training Information and Schedule



Training Enrollment

LOGIC Technologies, Inc. conducts in-depth training sessions at our facility on a monthly basis. Two free sessions are included with each system purchased. Additional training sessions are available for a nominal fee. Operator training sessions are \$950 per person and advanced training sessions are \$950 per person. We provide lunch for each class day; however, all other travel expenses are your responsibility.

Operator-Level Sessions

This class session provides overview coverage of the use of our system to maintain the daily operations of a refrigerated facility. The class is conducted by one of our senior engineers who have many years of experience designing refrigeration control systems. In effect, the classes are taught in layman's terms by someone who fully understands the issues faced by refrigeration operators.

July 14-16
September 8-10
October 13-15
December 8-10

Advanced SST Sessions

This class session provides in-depth coverage of the screen and report development tools. Also, briefly covering the script language used to develop control algorithms. These classes are conducted by senior members of our engineering staff. Prior technical and basic programming knowledge is a pre-requisite for this course.

August 11-13
November 10-12

*Seating is limited, make your reservations early by contacting:
Kim Smith
(770) 389-4964 ext. 6611
ksmith@logictechnologies.com

ANNUAL SOFTWARE MAINTENANCE CONTRACT

BY LAUREN SCHUSTER



It's that time of year, time to renew your annual software maintenance contract. LOGIC's software maintenance contract allows you to enhance your system hardware. This service is an extension of the support services provided on each new system 8000 sold, giving you peace of mind.

- Prevent obsolete technology from shutting down your operation by upgrading your system hardware.
- Maintain your software. Prevent challenges and extend functionality of your current system by maintaining software revision levels.
- Access to critical spare parts. Our support team can quickly help you order necessary critical spare parts to get you back up and running. Optional spare parts kit package also available.
- Obtain real-time support talk real-time with engineers that can help you troubleshoot or diagnose your problem quickly and efficiently. Use this support for emergency situations 24/7/365. Contact LOGIC to renew your contract!

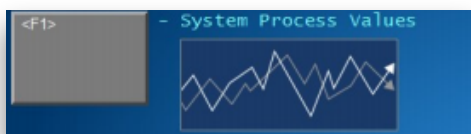
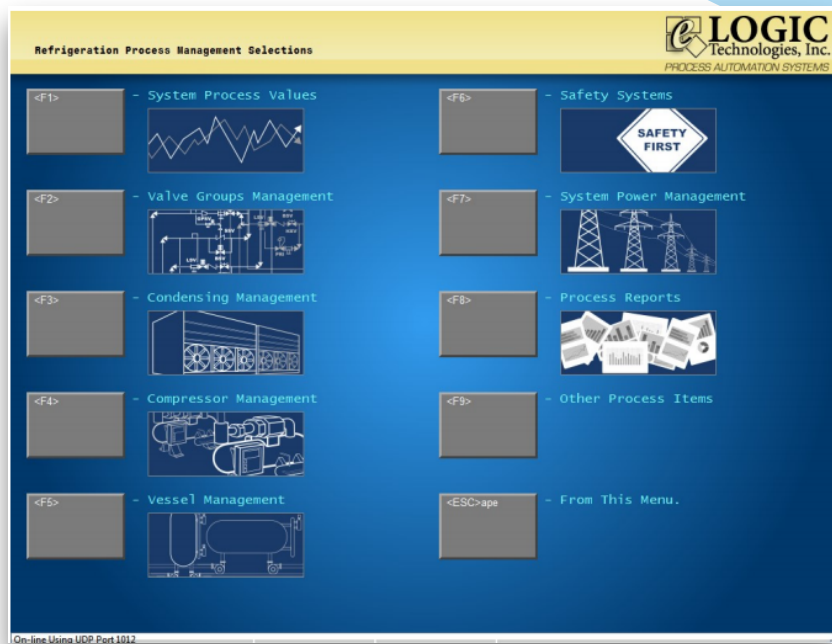
PART NUMBER:
LT03401699
COST:
\$1,040/year

REFRIGERATION PROCESS MANAGEMENT SELECTIONS MENU

BY LAUREN SCHUSTER

The Refrigeration Process Management Selections Menu on your LOGIC system allows user selection of all areas of your refrigeration system. Areas include your system process values, valve groups management, condensing management, compressor management, vessel management, safety systems, system power management, process reports and other process items used on the system. All refrigeration control views are available from this menu selection.

The following button descriptions outline more detailed information on selections:



System Process Values selection displays all analog or variable value information on the system. Through this selection, the system operator may set alarm parameters and signal tracing information. Also, single analog trending is available.



Valve Groups Management enters monitoring and control settings areas for all refrigeration control groups. Valve groups include evaporator control groups, chiller control groups and others.



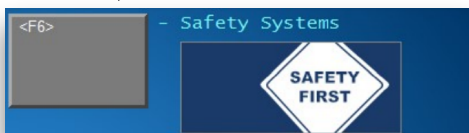
Condenser Management allows the operator to change high pressure discharge settings and modify pump and fan sequences on the system. Cell definition and additions are also handled through this selection.



Compressor Management selection provides operator control for system compressors. Each compressor, independent of manufacturer, is displayed and made to operate in the same manner. Compressor overrides and sequencing setup is also contained in this section.



Vessel Management controls the heart of the system. System pressure settings entered here are transmitted to compressors assigned to each vessel pressure system. Other control areas, such as liquid level and pump controls, are entered here also.

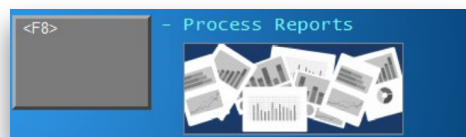


Safety Systems contain such items as refrigerant sensor monitoring, emergency stop systems, high pressure

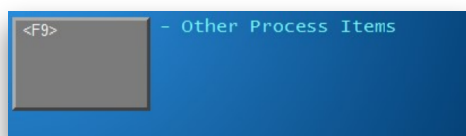
cutout systems and any sub-level system stop definitions.



System Power Management displays all system billing meters attached to the system. This area shows instantaneous indicators of electrical conditions and usage after operator changes to the refrigeration process.



Process Reports display all system reports available for printing that only apply to the refrigeration process.

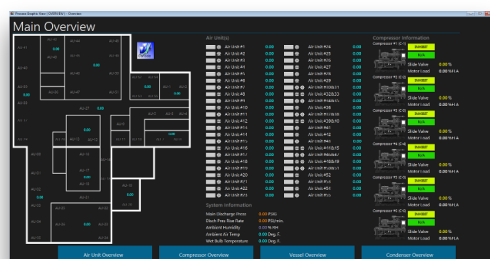


Other Process Items allow system operators interface to special programming for the system. Any program written outside the system software standard will be found here.

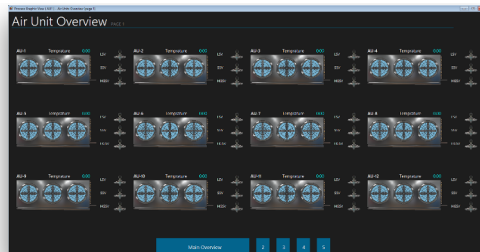
GRAPHIC UPGRADES

BY BEN BLACK

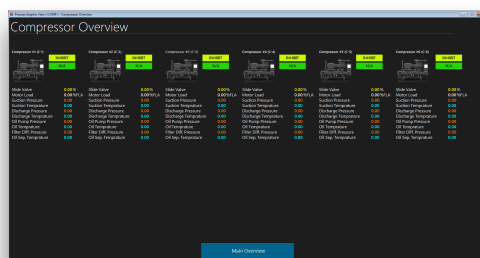
Have you considered updating your graphics package? You can update your graphics package and take advantage of changes that have been made over the years to help you manage your facility better than before. We have refined our graphics to show you the data you need quicker with general overview screens. These being Main or System, Layout, Air Units, Compressors, Vessel and Condenser Overviews.



The Main or System overview screen is meant to be a general dashboard showing Air Unit status, fans, temperature and NH3 information, if available, along with System information like king valves, ambient temp and relative humidity.

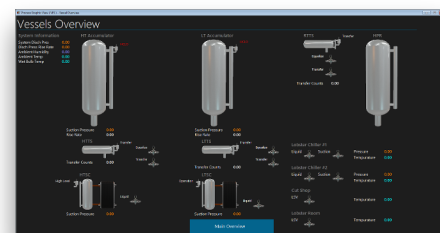


The air unit overview screen will show anywhere from eight to twelve units per screen. This depends on the amount of valves your unit has. Instead of showing piping, we display the valves that are being controlled.

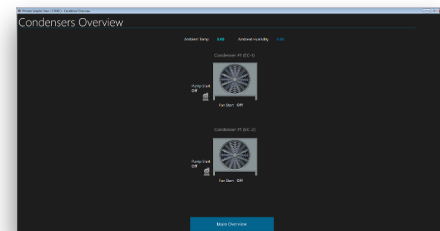


The Compressor overview will display up to twelve units and all the data coming back from them, including their statuses. The Vessels overview will be customized to your plant. The amount and types of vessels used changes for each system. The Vessels are now modular so the floats will change color based off their

status along with the liquid levels.



Finally, the condenser screen has been extremely simplified. No matter how many fans you have, we only display the single fan unless the fans are controlled independently of one another. This screen will also show purge points, ambient temperature, and ambient humidity.



In closing, an upgrade would be beneficial for you with larger screen real estate and condensed screens making your plant management and logging easier. Send me an email with any suggestions or ideas and I'll make them happen for you all. ben.b@logicttechnologies.com



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Address Correction Requested

Note:

If you wish to receive this newsletter via email in the future, send an email message to lauren.s@logicttechnologies.com with the subject set to "EMAIL request".