

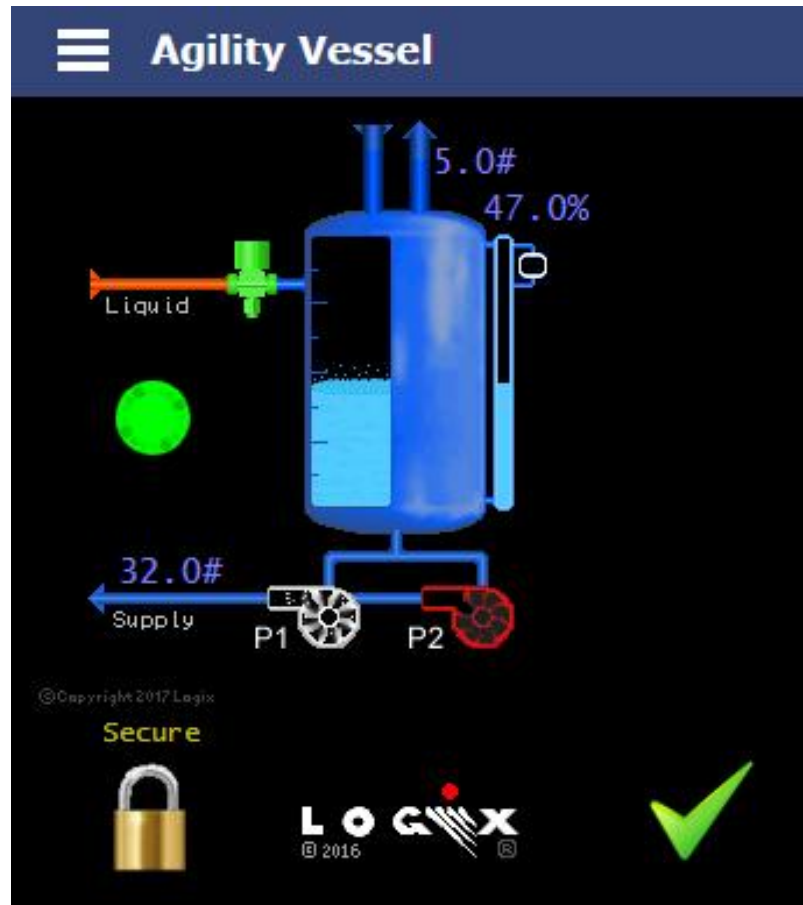
# Agility™

Pumped Refrigerant Vessel Controller

Choose the controller that addresses today's demands and tomorrow's changes.

Why waste your time cobbling together control for your recirculator package?

Make the right control moves at the right time with *Agility*.



WEB BROWSER-ACCESSED GRAPHICAL USER INTERFACE FOR THE AGILITY PUMPED REFRIGERANT VESSEL CONTROLLER.

## Stand-alone, Equipment-specific Design

*Agility's* stand-alone, equipment-specific controllers are ready "out of the box." They are field configurable from any wireless Wi-Fi or Ethernet connected web-browser device such as a smart phone, tablet or computer.

Scalable from a single unit to a large distributed control system, *Agility* network features support entire refrigeration system monitoring and control from a central computer, SCADA or PLC platform.

Optional Master Controller provides plant-wide equipment coordination for enhanced energy efficiency and demand management.

## Benefits

- Features that meet current operating and efficiency standards right out of the box
- Scalability from a single equipment item to a large distributed control system
- Cost-effective solutions for modernizing existing facilities

**Contractors:** Easily calculate your controls costs when bidding projects, from a price list alone.

**Owners:** Stay within construction budgets while positioning your facilities for future control and management needs.

### Agility Vessel Controller Capabilities

- Control one vessel with two refrigerant pumps
- Plug n' Play field configuration and intuitive parameter adjustment
- Monitor a continuous level probe with a 4-20ma signal
- Maintain vessel level by cycling a solenoid feed valve or modulating a motorized feed valve with a 4-20ma signal
- Lead-Backup control and protection for two sealed pumps
  - Monitor auxiliary readbacks to confirm operation
  - Low liquid level pump cutout with auto-restart
  - Monitor differential pressure to detect cavitation. Three pause cycles to correct.
  - Switches to Backup pump operation upon Lead failure
- Pump starter option (call for quote)
- Emergency Shutdown input
- Alarm output

### Agility Vessel Controller Specifications

- Requires 120VAC or 240VAC power, 15 amp service
- Integral 24VDC power for motorized feed valve (Danfoss, Parker R/S and Hansen types)
- Eight 120VAC Solid-state Digital Relays
- Three 4-20ma current loop Analog Sensor inputs
- One 4-20ma current loop Analog Output for motorized feed valve modulation
- Modbus interface through isolated RS485 (RTU) serial port or 10/100 Ethernet Port (TCP/IP)
- Flexible WiFi interface for Web-based user interface (remove to gain more space)
  - WPA2 Security (user configurable)
  - Local Access Point Mode for a dedicated local WiFi network
  - Client Mode to connect to an existing WiFi network
- UL listed for industrial control.
- 12" x 12" x 7" UL Listed Type 4 Enclosure.
- Made in the USA.

### Agility Vessel Controller Networked Features

- Built on proven Axiom™ technology, suitable for harsh industrial environments
- Web Browser Graphical Operator Interface over Wi-Fi or Wired Ethernet. Compatible with PCs, tablets, laptops, and smart phones
- Animated hi-def graphics adjusts to match field configuration changes
- Online Help and Documentation (Wiring, Installation, Setup and Operation)
- Field updatable through USB port to keep current with refrigeration technology
- Open Modbus (Serial RTU & Ethernet) Monitoring and Control Communications for third-party PLC or SCADA integration
- Optional Master Controller provides a supervisory layer of plant-wide equipment control with enhanced energy demand and efficiency management capabilities

**Vessel Control Setpoints**

Operating Mode **Auto** ▾

	Setpoint	Deadband
High Level Cutout	80.0 %	2.0 %
High Level Delay	5 Secs	
High Level Alarm	70.0 %	2.0 %
Operating Level	50.0 %	4.0 %
Low Level Alarm	30.0 %	2.0 %
Low Level Pump Shutdown	25.0 %	2.0 %
Pump Restart Delay	15 Secs	

Operate **1** Pumps

Stage	Op Mode	Run Order
Pump 1	Auto ▾	1
Pump 2	Auto ▾	2

Enable Pump Protection

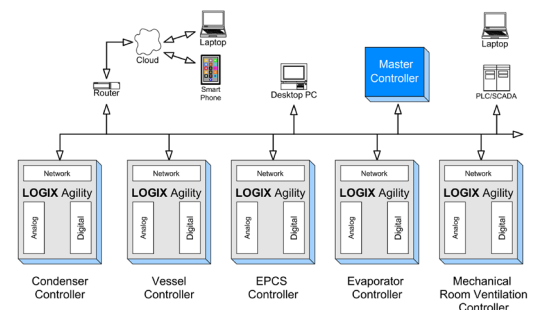
Minimum Diff. Pres **10.0** PSIG

Low Diff. Stop Delay **30** Secs

Diff. Restart Delay **180** Secs

**Save Changes** **Cancel**

ONE OF SEVERAL AGILITY VESSEL CONTROLLER CONFIGURATION AND SETUP SCREENS, AS SHOWN IN A WEB BROWSER-ACCESSED GRAPHICAL USER INTERFACE.



NETWORKED AGILITY VESSEL CONTROLLER AND OTHER EQUIPMENT CONTROLLERS WITH HMI AND MASTER CONTROLLER OPTIONS SHOWN.