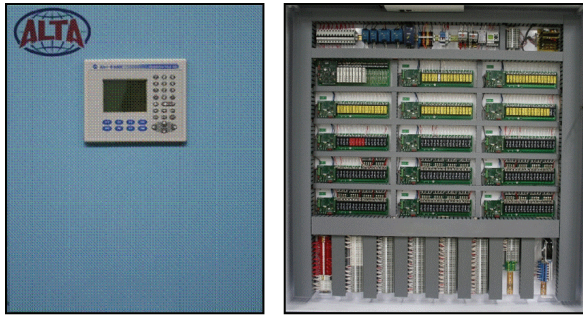


ALTA PTL Purger Basic Description



The control strategy for the purger is based on monitoring barrel pressure, temperature, and liquid level. The purger is manually charged (priming) and automatically drained. The purge point will run and advance by monitoring the purger barrel temperature.

Each time the barrel reaches the high temperature set point, the purge point is turned off and the barrel is allowed to cool. Once cooled to the low temperature set point, the next purge point is energized until the barrel reaches the high temperature set point again.

The purger has three different activation modes:

Remote purger runs when it receives a digital input signal from an external source.

Automatic purger runs intermittently, based on timers set on the purger's screen.

Off purger does not run.

Main Operating Display:		Inputs	Status
Suction Pressure	* 10.0 psig	Liquid Level	OFF
Barrel Pressure	* 10.0 psig	Remote Run	ON
Barrel Temperature	* 40.0 F		
Liquid Level	Normal	Outputs	Status
Operation Status	Purging	Liquid	ON
Operation Mode	Auto	Drain	OFF
On Cycle Timer	583 min	Vent	OFF
		Water	ON
		Purge Point	3

Button Legend:	
[F1] - Navigation Menu	* = Point/Value is Forced
[F2] - Reset Cutout	

Purger settings are displayed on the front control panel.



Alta Refrigeration, Inc. is a full service industrial refrigeration constructor of field erected systems.

Since 1975, we have developed partner relationships with our customers. It is our goal to exceed their expectations and build a relationship on trust and repeat business.

Our job does not end upon project completion. We will continue to provide support to our customers and meet their needs as requested. We are committed to provide:

- Qualified service technicians
- Planned maintenance and inspection programs
- Technical support
- On-site training
- Replacement parts
- Budgeting of future projects

Alta has been designing and installing ammonia refrigeration systems for over 30 years without any litigation for non-performance or accidents.

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ALTA PTL PURGER

Pressure Temperature Level Purger



Design/Build Constructor Specializing
In Industrial Refrigeration Systems

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ALTA PTL Purger (Pressure Temperature Level)



ADVANTAGES

- Economical A purger that will pay for itself. In fact, retrofitting a purger is a financial investment that keeps on paying dividends (in some cases hundreds of dollars per month)
- Environmentally friendly
- Energy saving
 - Substantially reduces energy consumption saving the owner thousands of dollars in operating cost.
 - Requires less energy to operate – single phase, 115V
- Fast payback
- Simple installation in new and existing refrigeration systems
- The last purger you will need to buy

FEATURES

- Completely automatic with continuous operation – no attendant required
- Solid-state controls sense the presence of air and purge for a longer time at those points
- Remote Allen Bradley PLC displays purger data on stand alone units
- On-board diagnostics
- Ideal for large systems designed for multiple purge points, up to 22 points – High capacity air separation – Total and rapid air removal
- Pre-piped and insulated
- All welded pipe construction under insulation – Preserves insulation integrity
- Stainless steel tubing and control valves



STATUS MODES

Off Cycle Purger is off.

Cooling activated when the barrel temperature rises above the high temperature set point.

Operating activated when barrel temperature falls below the low temperature set point. Each time the barrel temperature falls below the low temperature set point the current purge point is advanced to the next purge point.

Draining activated anytime the liquid level in the barrel rises above the high level sensor. Note: Draining can be activated while purger is off cycle, unable to run, and disabled modes.

Venting activated while purging from the current purge point when the barrel pressure rises above the high vent pressure set point.

Stopping activated to vent off excess pressure in the barrel before entering off cycle.

Unable to Run activated anytime the purger is wanted to run, however, cannot because no compressors are running to cool it.

Low Pressure Cutout activated whenever the barrel pressure falls below the low-pressure cutout set point.

High Pressure Cutout activated whenever the barrel pressure rises above the high-pressure cutout set point.

Stuck Pt Cutout activated if the purger continuously purges from any point for an extended period of time (Indicates purge point solenoid malfunction).

SEQUENCE OF OPERATION

Status Mode	Liquid Solenoid	Drain Solenoid	Purge Solenoid	Vent Solenoid	Water Solenoid
Off Cycle					
Cooling					
Operating					
Draining					
Venting					
Stopping					
Unable to Run					
Low Pressure Cutout					
High Pressure					
Stuck Pt Cutout					
Stuck Vent Cutout					

