



**CRITICAL COMPONENTS  
GROUP**

# Polycold® AquaTrap® AT-Regen Controller

VACUUM PRODUCTS

The AquaTrap® system is designed to upgrade your vacuum system by removing the extra water vapor that is present in a wide range of vacuum applications. Part of the complete system is a compact controller that has been expressly designed and developed for use with the AquaTrap®.

## Benefits

- Improved throughput for higher yields
- Very low vibration
- Locate remotely

### *Programmable*

The AquaTrap® controller can be programmed manually from the front panel of the unit by using the WARM, EDIT, and COOL buttons. You can also program the unit via an RS-232 connection to your computer.

### *Color Coded Status Indicators*

Easy-to-see indicator lights flash while the unit is either warming or cooling, and then stay on when the unit has reached the desired optional temperature. A red light indicates warming and a green light indicates cooling.

### *Bright, Clear Digital Readout*

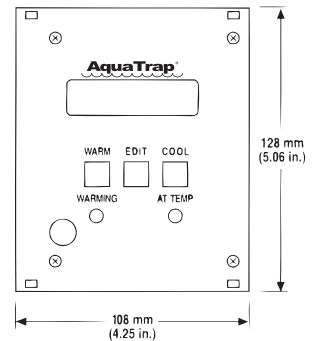
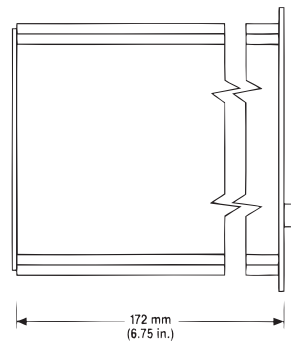
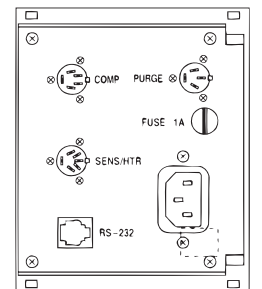
A lighted LCD digital readout is provided so that the system's user can easily read the operating temperature.

### *Remotely Locate From the Compressor*

You may place the AquaTrap® controller any distance you choose from the compressor. This fact, combined with the compact size of this controller, allows the user to place the unit wherever it will be conveniently positioned for their use.

### *Safe, Reliable Operation*

Brooks Automation is known for their attention to detail in design and exceedingly high quality of products. Using standard 110/220 VAC power, the AquaTrap® controller is equipped to reset the unit to normal operating conditions in the event of a power failure or interruption. The controller will also then automatically restart the compressor.



**Main Power:**  
110/220 VAC switch selectable  
50/60 Hz  
**Outputs 110 VAC:**  
Power Consumption:  
Heater = 25 Watts  
Purge Solenoid = 6 Watts  
Compressor Relay = <2 Watts  
**Computer Interface:**  
RS-232 full duplex

**Casings:**  
1/4 DIN rack mountable  
**Display:**  
1 x 8 x 1/2 inch lighted LCD  
**Control Buttons:**  
3 (WARM, EDIT, COOL)  
Recessed for safety  
**LED Indicators:**  
Red indicates 'warming'  
Green indicates 'at temperature'

*Controller Operating Cycles*

**WARM Button**

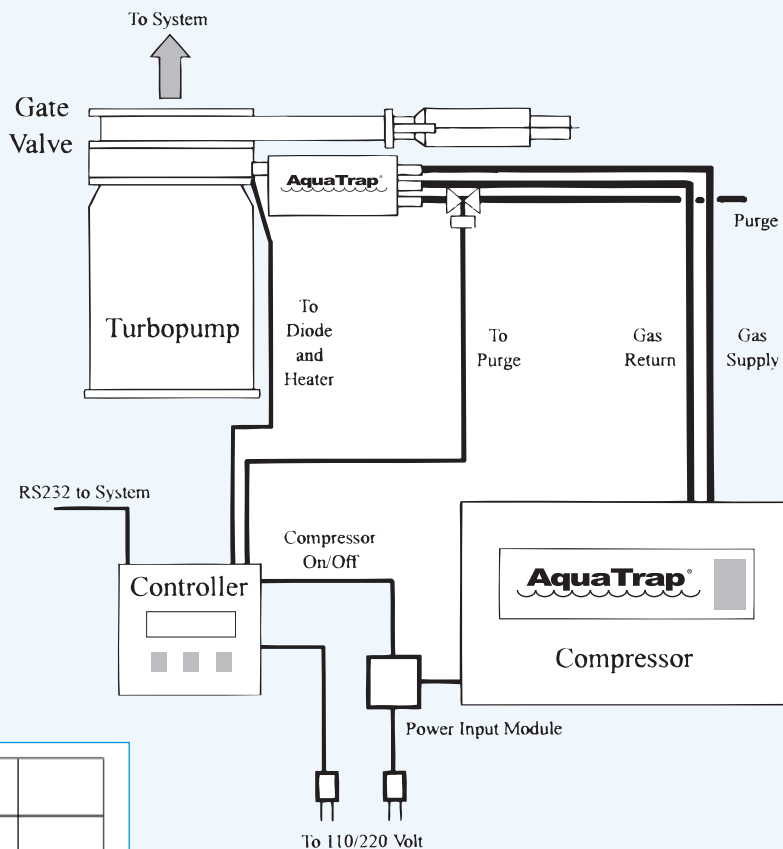
- Turns off compressor
- Turns on heater and purge (red LED blinks)
- At 310 K, the heater turns off and the purge countdown begins (the red LED stays on)
- After countdown reaches zero, the purge and red LED shut off

**EDIT Button**

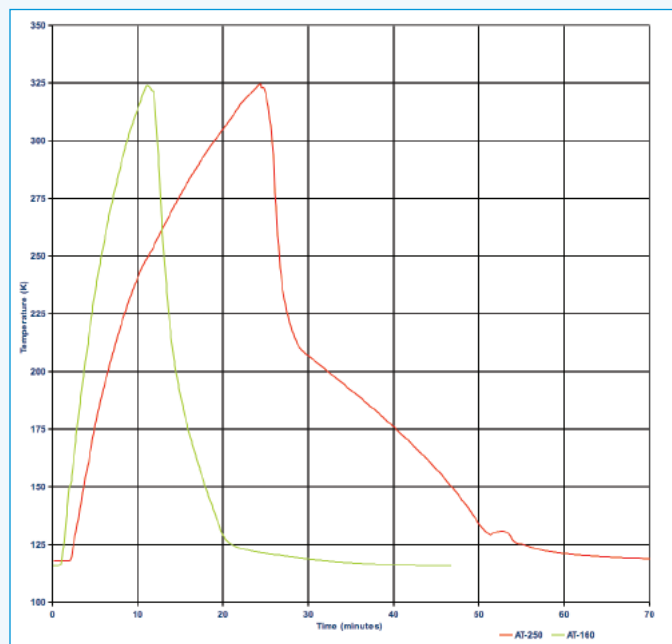
- Alter at temperature set points
- Adjust purge countdown

**COOL Button**

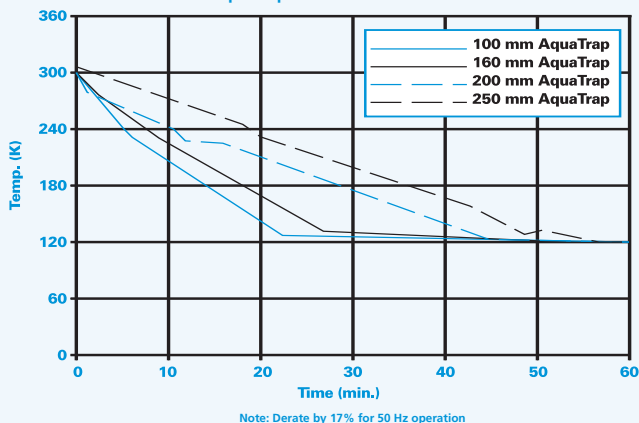
- Turns off heater and purge
- Turns on compressor (green LED blinks)
- Green 'At Temp' LED light stays on when temperature goes below 'At Temp' set point (nominal 130 K)



Cool to Cool Regeneration



Aquatrap® Cooldown Performance



*For more information, please contact your local Brooks Automation sales representative or visit [www.brooks.com](http://www.brooks.com).*

