


TES-CLEAN AIR SYSTEMS

Automatic pressure control (APCS) options for Airflotek Fan Filter Units

- Dual Mode/APCS
- Dual Mode APCS 
- Digital APCS



TES-CLEAN AIR SYSTEMS

Dual
Mode/APCS

Option

1

Our most popular Automatic Pressure Control scheme allows for switch selectable manual fan control or APCS fan control with *no computer interface required*. “Dual Mode/APCS” (detailed in slides 4-5)



“Dual Mode/APCS” : Manual Fan Control
With the rocker switch set to “manual” the rheostat is rotated to directly control fan speed.



“Dual Mode/APCS”: Automatic Pressure Control Mode
With the rocker switch set to “auto control” the rheostat is rotated to select the system pressure set point. To the left= a lower system pressure set point and visa versa.





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Dual
Mode/APCS



Option
2

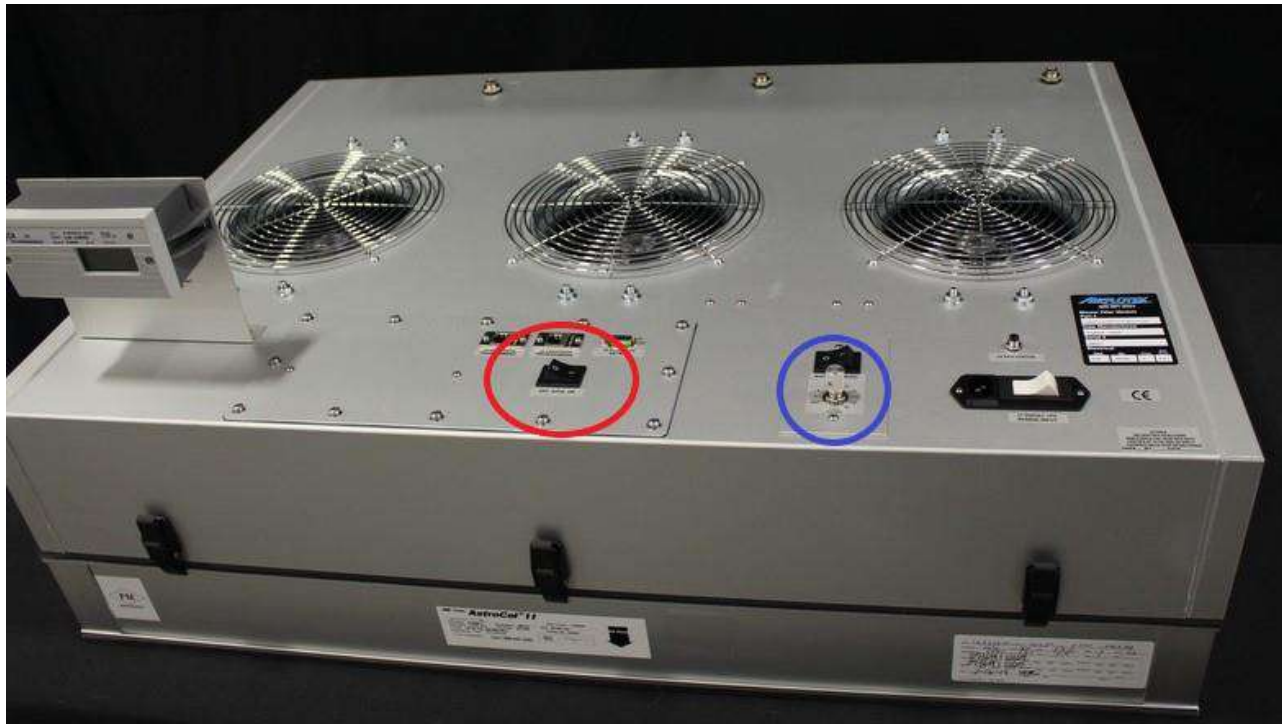
“Dual Mode/APCS Adds a factory installed, end user specified, digital pressure set point.

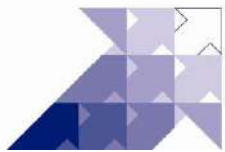
“Dual Mode/APCS ±”:

The “A” controls group (Blue bubble) has identical functionality to the switch/rheostat described in slides 4-5) Dual Mode /APCS + adds the “B” group rocker switch. The “B” group rocker switch yields functionality as follows.

- 1) Position 1, labeled: Default to “A” control group. (Blue Bubble) (I.E. in this position the overall system functionality is identical to the standard “Dual Mode/APCS”, slides 4-5)
- 2) Position 2, labeled: Factory set point. (Red Bubble) With the switch set to “factory set point” the system defaults to the pre-installed, digital factory pressure set point)

Note: controls location per customer preference





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Digital/APCS

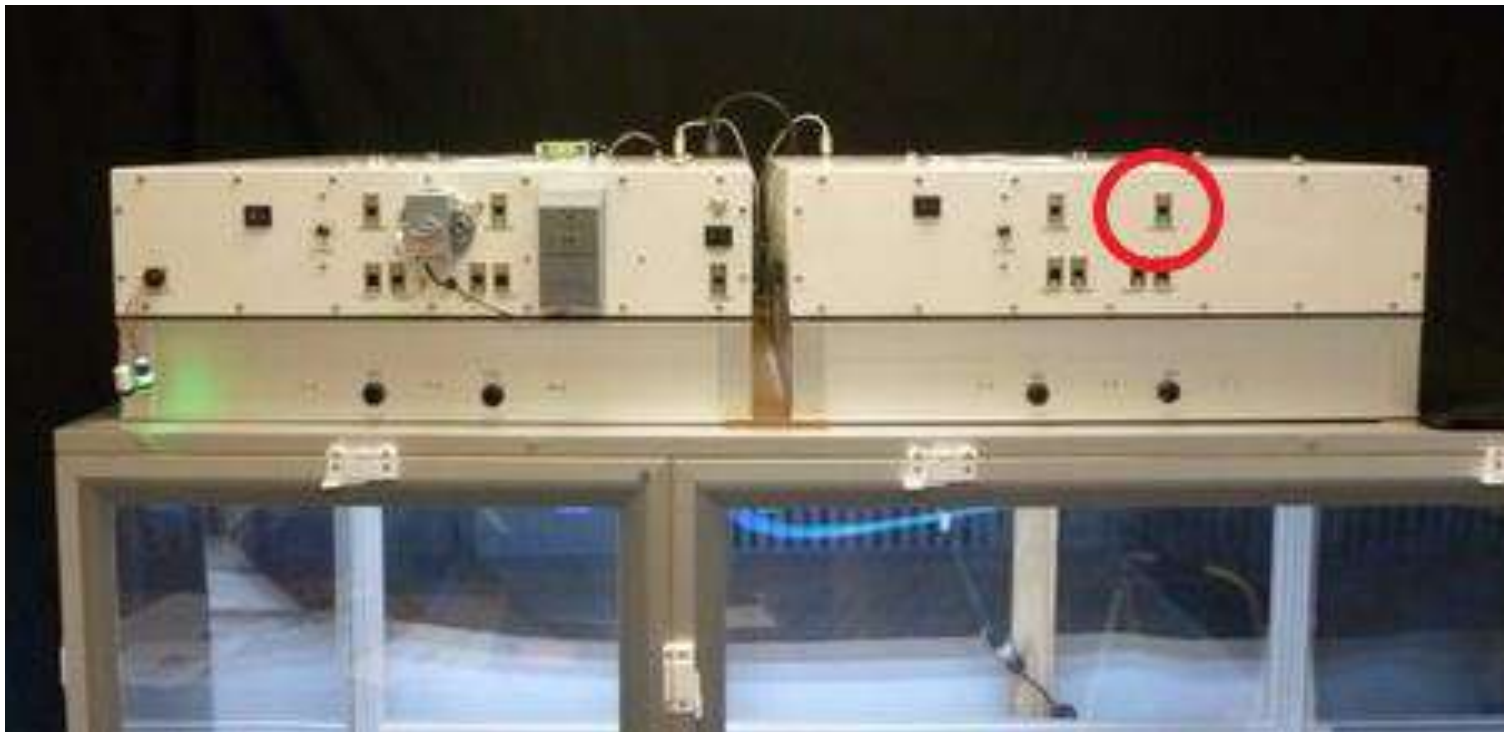
Option

3

“Digital APCS”

Digital APCS relies exclusively on an interface between the customers user interface and our proprietary P, I, &D digital APCS control module

“Digital APCS”: all settings are selected, and data** is retrieved, via a MODBUS RTU interface. Note: MODBUS ASCII and ETHERNET are available via an external “gateway device”. Computer interface is via a RJ45 connector, circled in red below, on the FFU. (location per customer preference) ** data includes measured system pressure, RPM, fan status, among others.



“Digital APCS software”

Some customers write their own software interface, while others prefer to keep it simple by using a “shareware” program called MODSCAN to do the initial set-up of the system parameters.

<https://www.win-tech.com/html/modscan32.htm>

How can we be of help in addressing your need for Automatic Pressure Control (APCS) of an FFU controlled mini-environment?

I hope you will feel free to call on TES to provide you with a solution for your APCS mini-environment requirement

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