

### **New Integration Solutions**

#### Room Integrator (RMI)

- Low cost integration only product
- Room networking and protocol translation
- Integrate one room at a time
- Webserver serving diagnostic displays



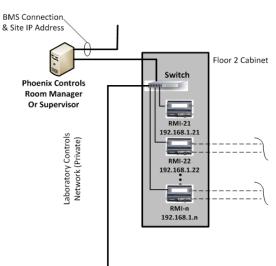
- Networking, Integration and Control in one cost effective solution
- Same features as RMI
- Plug in IO Modules

#### Room Manager Software (RMM)

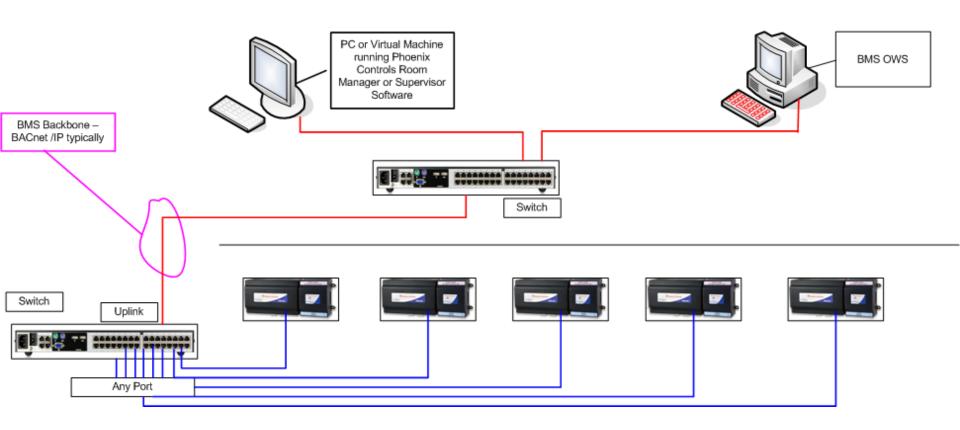
- Functionally replaces MacroServer
- Supports single IP drop architecture
- Local backups
- Remote access point



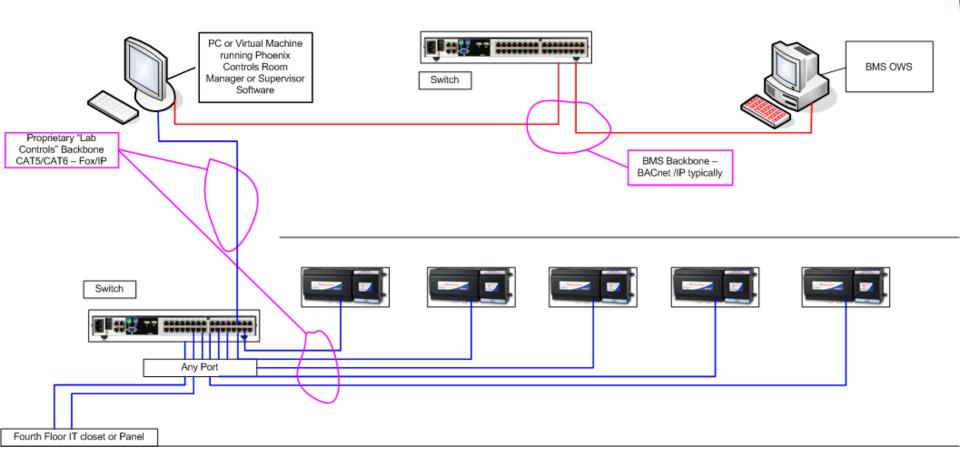




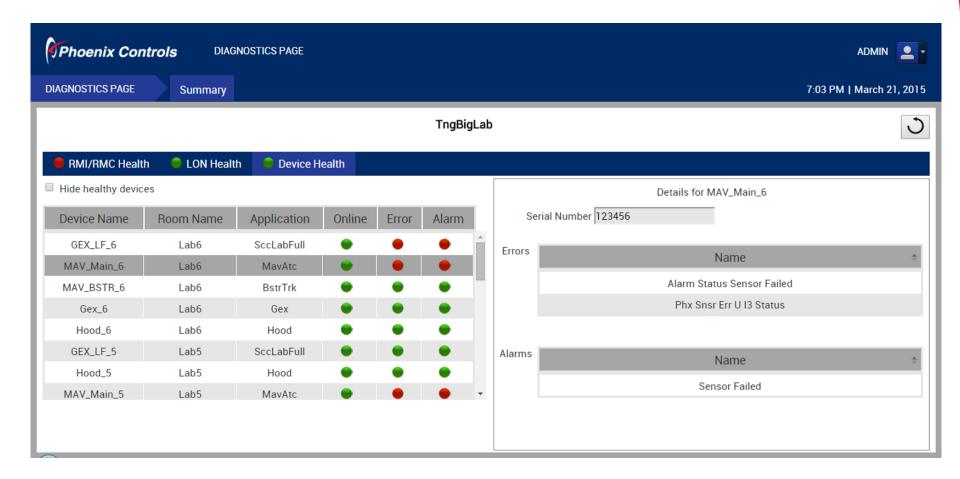
### **Distributed Integration**



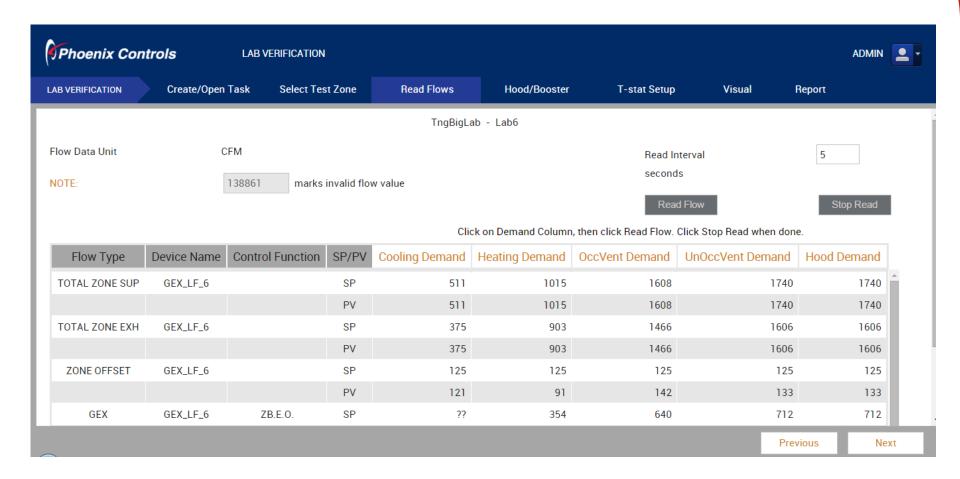
# **Centralized Integration**



### **Diagnostic Displays**



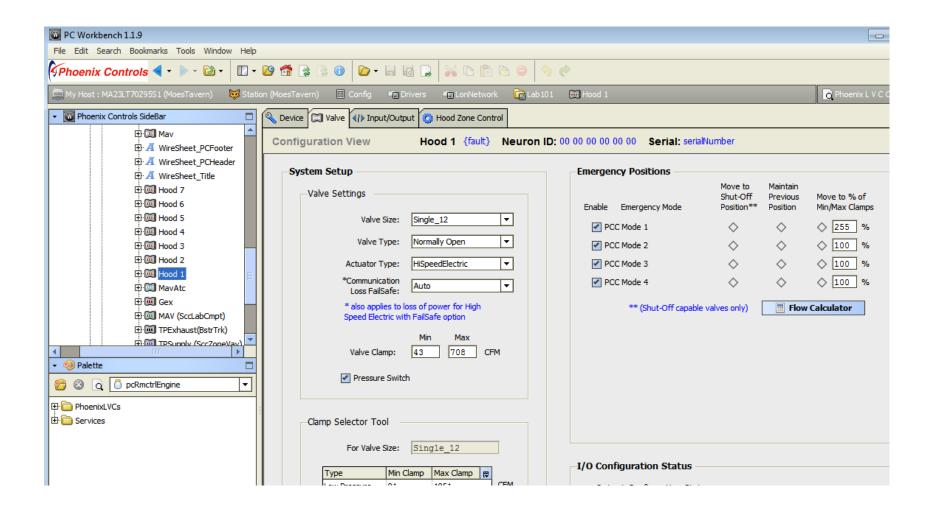
### Flow Management



# Flow Adjustment

Phoenix Controls Test and Balance   Manual Override   Flow Management admin					
FLOW MANAGEMENT Select Test Zone	Adjust Flow			11:56 AM   May 5, 2015	
SELECT VALVE  Traccel_TrackingPair  Traccel TP(Supply & Exhaust)	COMMAND FLOW  Enter a flow value in the ov when done reading the flow  Flow Feedback:  High Flow Override:  Flow Feedback:  Low Flow Override:	erride box below and click Override.Click relinquish  993  1000  Override Relinquish  208  200  Override Relinquish		e in the flow curve, enter the measured Flow box and click Adjust Flow  Multiple Point  CFM  Adjust Flow	
				Previous Next	

### Workbench Configuration and Diagnostics



### **Notes on Migration**

#### MicroServer

- Reuse existing FTT-10 wiring in the room
- Can remove / bypass the Lon routers
- Run standard CAT 5/6 Ethernet from RMI / RMC to switch (provided by others)
- Multiple protocols available for building integration

#### MacroServer

- Reuse existing FTT-10 wiring in the room
- Remove TP-1250 wiring
- Run standard CAT 5/6 Ethernet from RMI / RMC to switch (provided by others)
- One NIC on Room Controller computer to RMI / RMC subnet, the other to building network
- BACnet over Ethernet integration

#### C1 to C2 retrofit

- Replace CCU100-PEM with RMC if implementing temp and reheat control and do not want to rewire sensors and other equipment
- Replace CCU100 with RMI
- Reuse existing room wiring and run standard Ethernet cable to switch



### **New Front End Solutions**

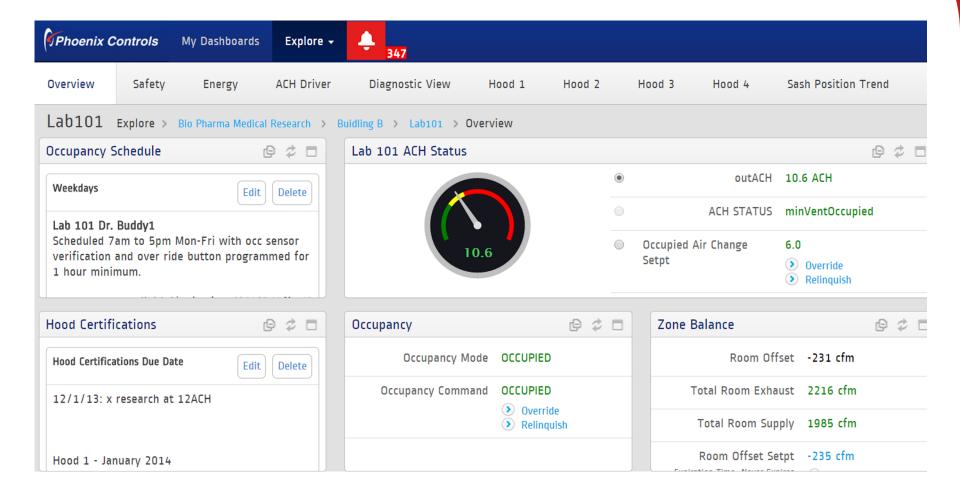
### Supervisor

- Software solution
- For medium and large (greater than 300 points to be viewed)
   projects
- Offers long term data trending and archiving
- Lon-based applications (connect to Micro/MacroServers, RMI/RMC/RMM)

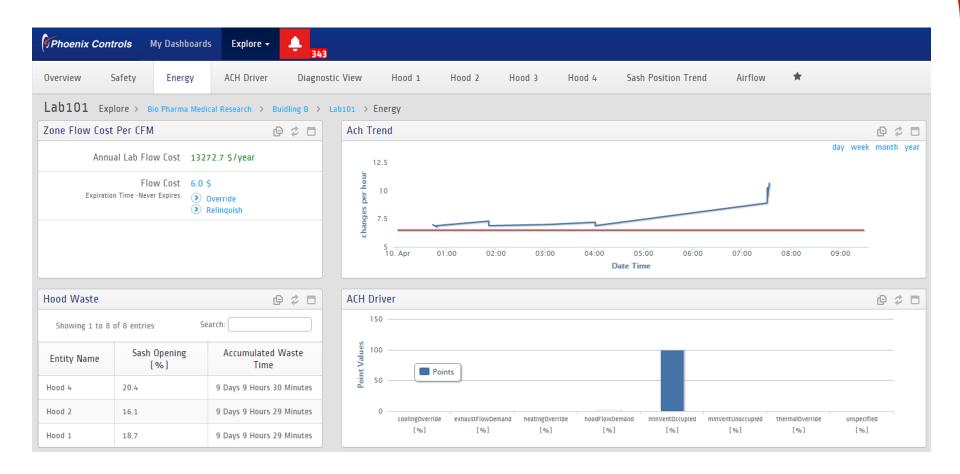
#### Portal

- Hardware based solution
- Small projects (less than 300 points to be viewed)
- Short term trending
- Front end solution for BACnet MS/TP applications

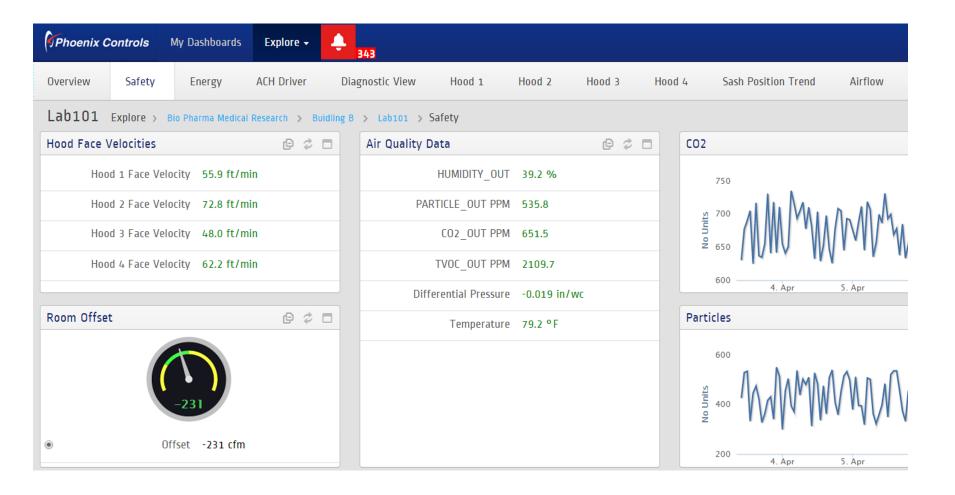
### **Dashboards**



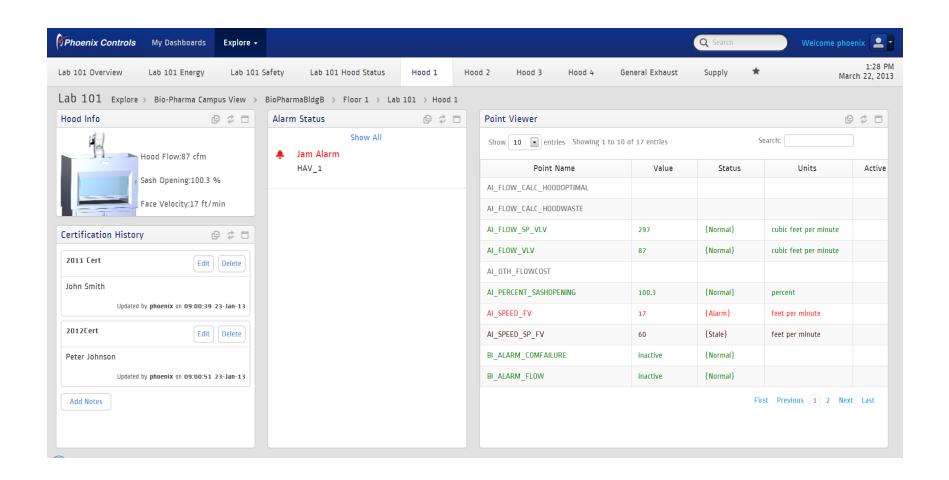
# **Identify Poor Sash Management**



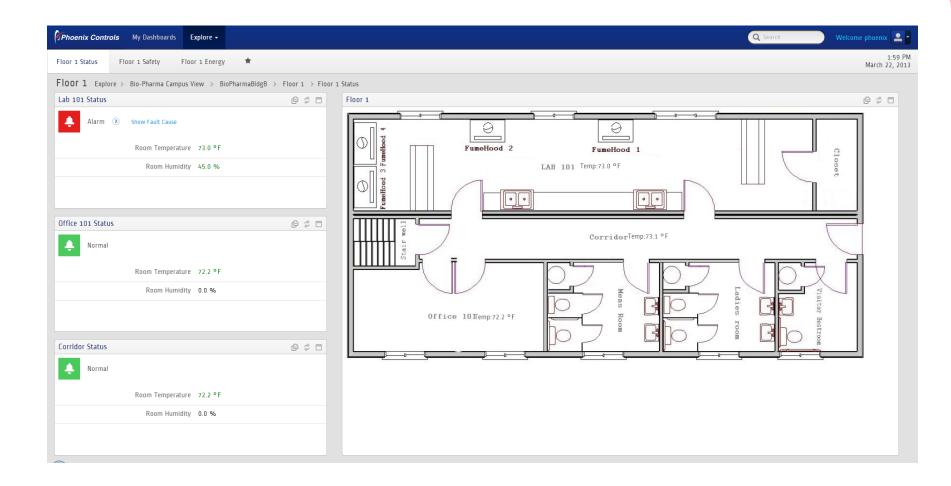
# **Monitor Third Party Devices**



### **Troubleshoot Problems Quickly**



### **BMS-like Views**



#### View Touch Screen Room Monitor

- 7" capacitive touch screen display
- Rated for IP54 environments
- BACnet MS/TP or Lon
- On screen configuration
- Touch navigation
- "Tile" screen layout
- Single or multiple rooms



### **Instinctive Alarming**

- Full screen visual and audible alarms
- Two-tap to acknowledge
- Alarms nest in tile after acknowledge





### **Customizable Alarming**

- Local alarming
- Customizable by tile or by point
- Audio volume control and mute





### **Three New Fume Hood Displays**

### Sentry S

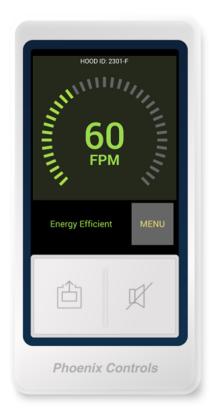
- Functionally replaces FHM430
- When safety is the only concern

### Sentry SV

Same as S but also calculates face velocity

### Sentry SE

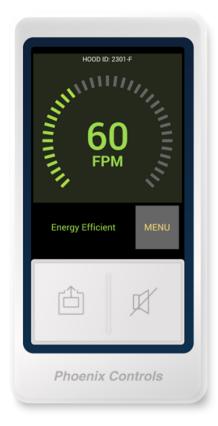
- Functionally replaces FHM631
- Safety and energy savings are priorities





#### What's New

- Bright, touch screen display
- Much smaller footprint
- Energy waste indicator
- Custom user messages
- Daily use with stop watch & timer
- On the Lon network
- Easier wiring via hub
- Optional sidewall sensor

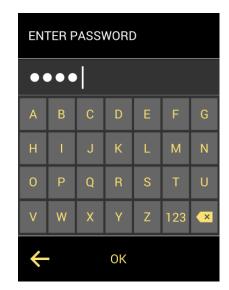


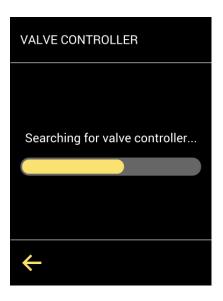


### **Touch Configuration**

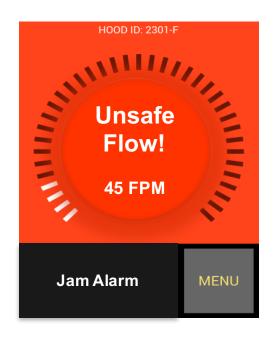


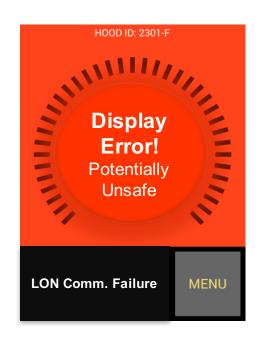


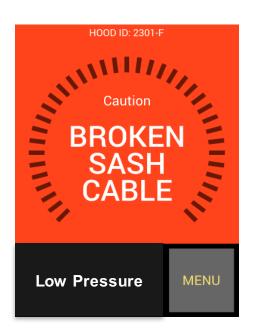




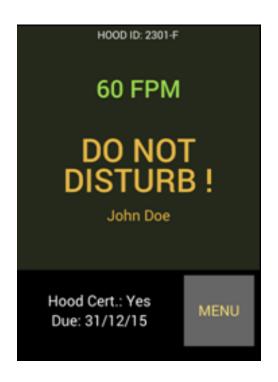
### **Intuitive Alarming**

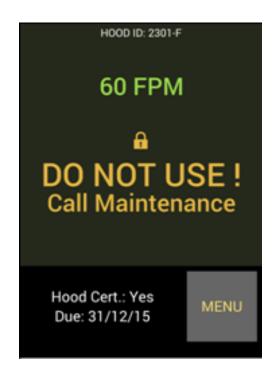




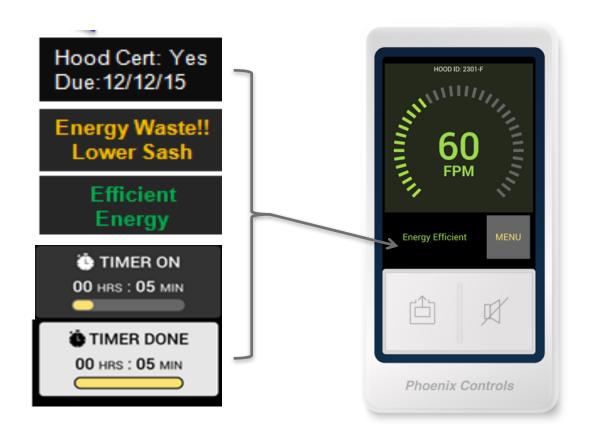


### Message Banner





### **More Information**



# Side Wall (TTW) Sensing I/O Option

- Available on all three models
- Reference only (0-10 volts input)
- Wire third party sensor to available 0-10v input on valve
- Does not control valve
- Sash position continues to control flow
- Drift Alarm: when calculated face velocity and side wall sensor reading vary by a configurable percent difference
- Optional and selectable in configuration settings

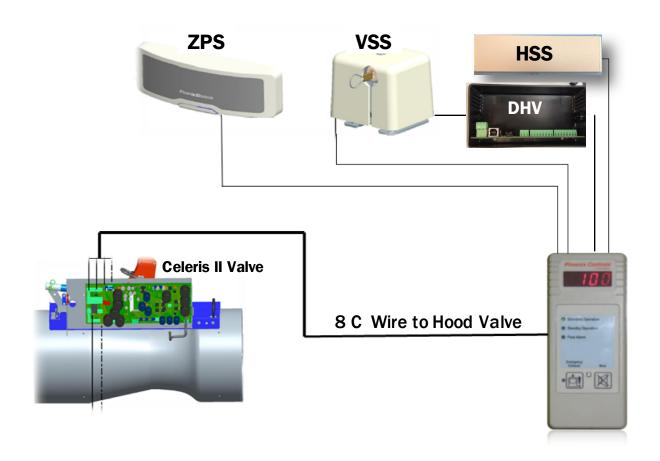


# **Summary**

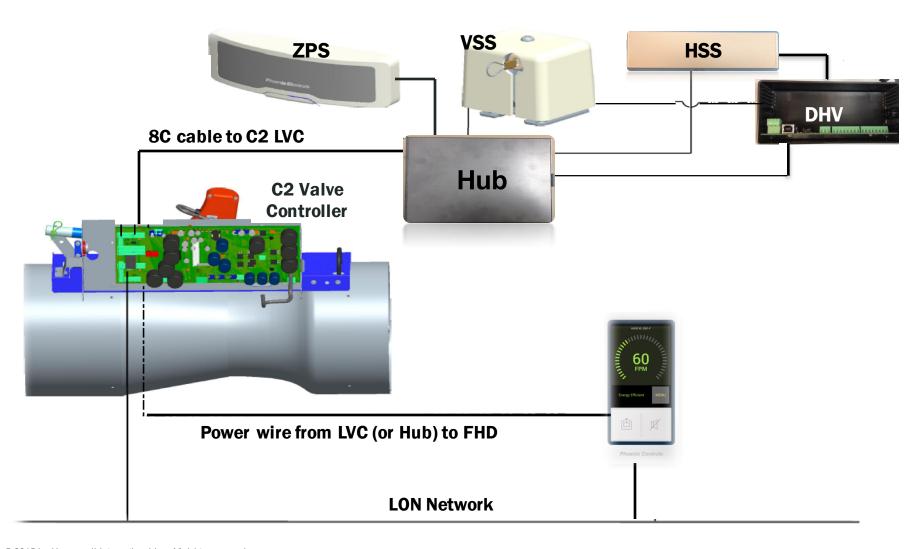
Feature	Sentry S	Sentry SV	Sentry SE
Primary / Secondary	Yes	No	No
Displays Face Velocity	No	Yes	Yes
Custom Messaging	Yes	Yes	Yes
Clone Configuration Settings	Yes	Yes	Yes
Energy Savings Monitoring	No	No	Yes
Sidewall Sensor Drift Alarm	Yes	Yes	Yes



# **Legacy FHM Wiring Layout**



# **Sentry Wiring Layout**





#### The Vantage value proposition includes:

- More information for more users: facility staff, lab users, IT, administration
- Cost effective front end solutions that offer more value at a significantly lower cost as compared to integration to BMS
- Room and hood displays with modern look and feel
- Lower cost to configure, commission, support
- Shorter learning curve
- Reduce time and effort to diagnose equipment issues