



® Knowledge  
Beyond  
Measure.



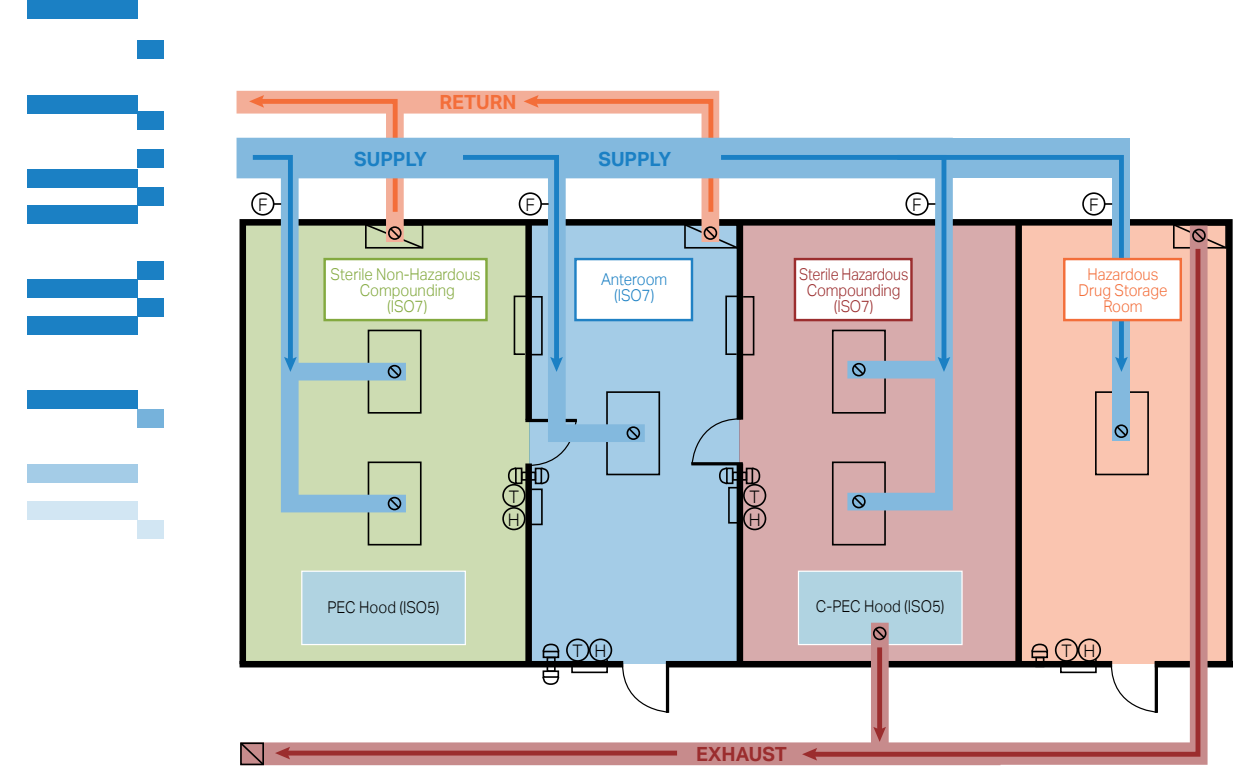
# 503(a) & 503(b) Compounding Pharmacy – TSI® Has You Covered.

Safety | Measurement | Compliance



# TSI®: Helping in Leading the Industry in 503(a) & 503(b) Compounding Pharmacy

- Low maintenance via accurate and stable room pressure differential
- Reduced training by way of intuitive displays
- Cuts startup and operating costs with a low pressure design



## We've Got You Covered

Requirement	Sterile Non-Hazardous Compounding Room	Anteroom	Sterile Hazardous Compounding Room	Hazardous Drug (HD) Storage Room
<p><b>Monitoring 503(a) Pharmacies</b> Measure and alarm:</p> <ul style="list-style-type: none"> <li>▪ Room pressure</li> <li>▪ Temperature</li> <li>▪ Humidity</li> </ul>	<p><b>Sequence of Operations</b> Constant volume supply and exhaust maintain room pressure differential of <math>\geq +0.02</math> in W.C. with respect to Anteroom. Room monitor measures and alarms on room pressure differential, supply flow (ACH), temperature and relative humidity.</p> <hr/> <p><b>TSI® Bill of Materials</b> (1) PresSura™ RPM20 Room Pressure Monitor (1) Model 801924 Temperature and Humidity Sensor</p>	<p><b>Sequence of Operations</b> Constant volume supply and return maintain room pressure differential of <math>\geq +0.02</math> in W.C. with respect to corridor. Room monitor measures and alarms on room pressure differential, supply flow (ACH), temperature and relative humidity.</p> <hr/> <p><b>TSI Bill of Materials</b> (1) PresSura™ RPM20 Room Pressure Monitor (1) Model 801924 Temperature and Humidity Sensor</p>	<p><b>Sequence of Operations</b> Constant volume supply and return maintain room pressure differential of <math>-0.01</math> to <math>-0.03</math> in W.C. with respect to Anteroom. Room monitor measures and alarms on room pressure differential, supply flow (ACH), temperature and relative humidity.</p> <hr/> <p><b>TSI Bill of Materials</b> (1) PresSura RPM20 Room Pressure Monitor (1) Model 801924 Temperature and Humidity Sensor</p>	<p><b>Sequence of Operations</b> Constant volume supply and exhaust maintain room pressure differential of <math>-0.01</math> to <math>-0.03</math> to any adjoining room. Room monitor measures and alarms on room pressure differential and supply flow (ACH).</p> <hr/> <p><b>TSI Bill of Materials</b> (1) PresSura RPM20 Room Pressure Monitor</p>
<p><b>Controlling 503(a) Pharmacies</b> Control:</p> <ul style="list-style-type: none"> <li>▪ Ventilation (ACH) / supply flow</li> <li>▪ Room pressure differential by adjusting exhaust flow</li> <li>▪ Room temperature</li> </ul> <p>Measure and alarm:</p> <ul style="list-style-type: none"> <li>▪ Room pressure</li> <li>▪ Ventilation (ACH)</li> <li>▪ Temperature</li> <li>▪ Humidity</li> </ul>	<p><b>Sequence of Operations</b> Room controller modulates supply to maintain constant flow, exhaust to maintain room pressure differential of <math>+0.02</math> in W.C. and heat to maintain temperature. Room controller measures and alarms on room pressure differential, supply flow (ACH), temperature and relative humidity.</p> <hr/> <p><b>TSI® Bill of Materials</b> (1) PresSura™ RPC30 Room Pressure Controller (1) Model 801925 Temperature and Humidity Sensor (1) TF-Series Thermal Flowstation (2) Model 800380 High-Speed Electric Actuator</p>	<p><b>Sequence of Operations</b> Room controller modulates supply to maintain constant flow, exhaust to maintain room pressure differential of <math>+0.02</math> in W.C. and heat to maintain temperature. Room controller measures and alarms on room pressure differential, supply flow (ACH), temperature and relative humidity.</p> <hr/> <p><b>TSI Bill of Materials</b> (1) PresSura RPC30 Room Pressure Controller (1) Model 801925 Temperature and Humidity Sensor (1) TF-Series Thermal Flowstation (2) Model 800380 High-Speed Electric Actuator</p>	<p><b>Sequence of Operations</b> Room controller modulates supply to maintain constant flow, exhaust to maintain room pressure differential of <math>0.03</math> in W.C. and heat to maintain temperature. Room controller measures and alarms on room pressure differential, supply flow (ACH), temperature and relative humidity.</p> <hr/> <p><b>TSI Bill of Materials</b> (1) PresSura RPC30 Room Pressure Controller (1) Model 801925 Temperature and Humidity Sensor (1) TF-Series Thermal Flowstation (2) Model 800380 High-Speed Electric Actuator</p>	<p><b>Sequence of Operations</b> Room controller modulates supply to maintain constant flow of 12 ACH, room pressure of <math>-0.01</math> to <math>-0.03</math> WC. Room controller measures and alarms on room pressure differential and supply flow (ACH).</p> <hr/> <p><b>TSI Bill of Materials</b> (1) PresSura RPC30 Room Pressure Controller (1) TF-Series Thermal Flowstation (2) Model 800380 High-Speed Electric Actuator</p>

Monitoring 503(b) Outsourcing Facilities?  
We Can Do This Too!

TSI® instruments comply with FDA GMPs for monitoring systems.

# 503(a) & 503(b) Compounding Pharmacy Trusted TSI® Measurement Devices

Compounding pharmacies must be certified to meet particle concentration limits every 6 months. But do you know what's happening 3 minutes, 3 days, or 3 months after your measurement? Simplify this process to ensure compliance using TSI real-time particle counting instruments—used in FDA-validated pharmaceutical cleanrooms as well as other ultra-pure cleanrooms.

## **AeroTrak™ Handheld Particle Counters 9306**

For periodic monitoring of particle levels in anterooms, hazardous compounding, and sterile compounding rooms.



## **VelociCalc™ Meters 9650**

For HVAC system pressure measurement, and can connect to pitot probes for performing duct traverses.



## **PresSura™ Room Pressure Monitors and Controller**

For continuous monitoring of room pressure differential employing through-the-wall sensor technology.



## **AeroTrak™+ Portable Particle Counters A100 Series**

For all industries for cleanroom certification, monitoring and specialized tasks including gas testing and filter scanning.



## **Alnor™ Micromanometers EBT730**

For taking accurate, direct air volume measurements at diffusers and grilles.



Find out more  
[tsi.com/compounding-pharmacies](http://tsi.com/compounding-pharmacies)



Knowledge Beyond Measure.

TSI Incorporated - Visit our website [www.tsi.com](http://www.tsi.com) for more information.

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