



® Knowledge  
Beyond  
Measure.



# Are You Ready for the Next Emerging Infectious Disease in Healthcare?

It's not if it will happen but when

# Critical Planning Should Consider Infection Risk Management Mode (IRMM)

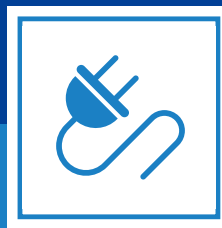
Hospitals must use an all-hazards approach including a focus on emerging infectious disease when developing their Hazards Vulnerability Assessment (HVA). ASHRAE Standard 241 Control of Infectious Aerosols mandates a Building Readiness Plan (BRP) that includes operational details of how to achieve outdoor equivalent air requirements during IRMM.

Every healthcare facility's Hospital Emergency Management Program or Building Readiness Plan must consider:

- Patients in emergency rooms and intensive care units that have not yet been diagnosed
- How to ensure health and safety of medical staff
  - Increased outdoor air requirements during IRMM
  - Monitoring of room air pressure in potentially infectious isolation areas during IRMM

## How TSI® Can Help

TSI® PresSura™ Room Pressure Monitors and Controls enable easy, quick transition of standard care spaces to negative pressure as needed. This allows staff to rapidly switch room mode from integral display for local control by way of seamless communication with BAS to automate HVAC changeover.



### Reduced Energy Expenses

- Avoid exhausting conditioned air during Standard Mode
- Reduce fan energy with low pressure drop dampers



### Increased Safety

- Trusted room pressure measurement with best-in-class accuracy and no drift
- Multi-level user access prevents unauthorized changes



### Less Maintenance

- Extended maintenance interval with no-drift sensor
- Sensor Verification can be performed in place using testing, adjusting and balancing (TAB) tools
- Intuitive interface requires no hiring of contractors to work on PresSura™ Room Pressure Monitors

## Pressure Monitor Sequence of Operation

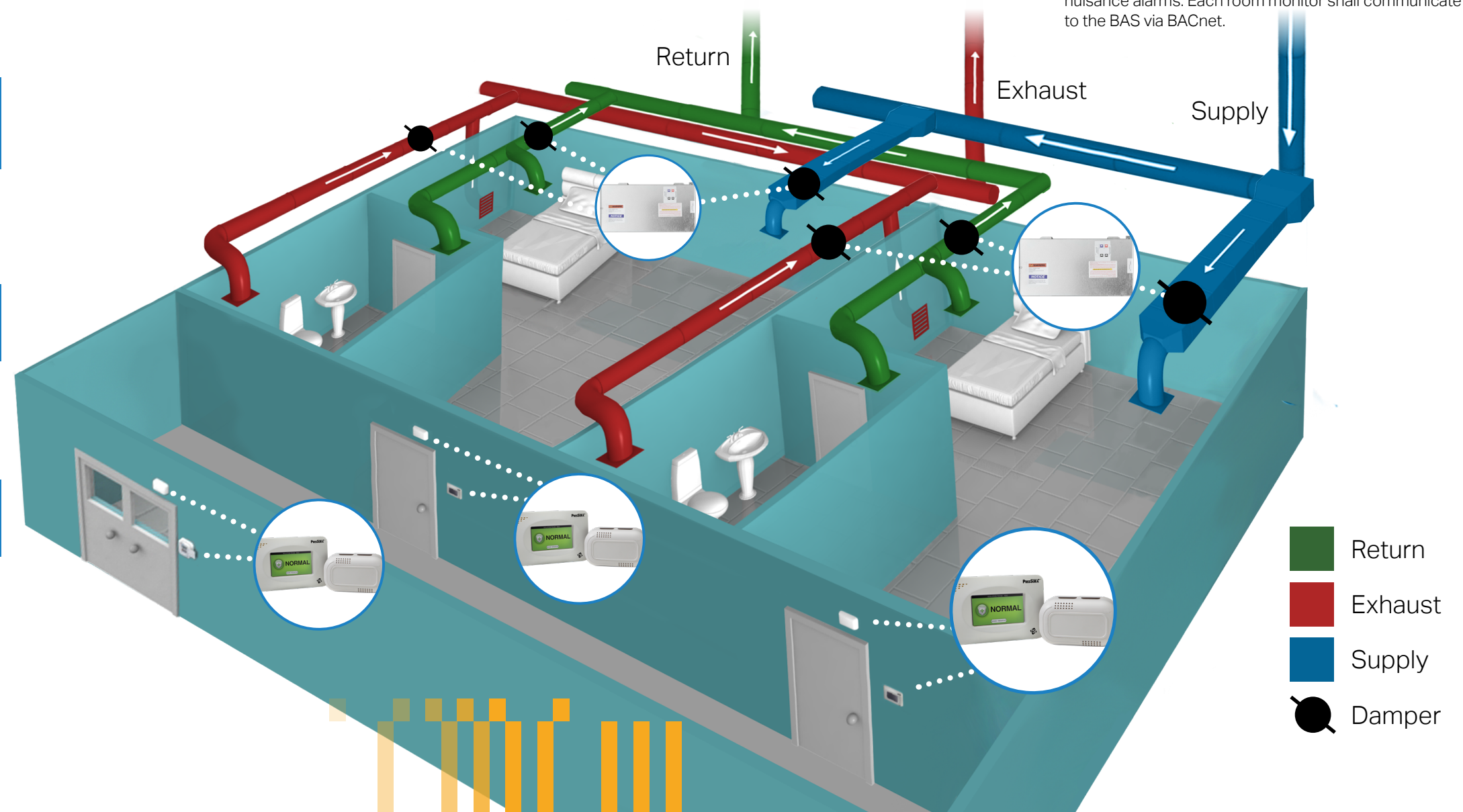
### Standard Mode

- Return air damper shall be open and exhaust air damper closed. Exhaust air shall maintain minimum toilet ventilation requirements. Room supply air shall be at minimum setpoint.
- Corridor supply and exhaust shall be at minimum flow setpoints.
- All room pressure alarms on the room monitor shall be disabled.

### Infection Risk Management Mode (IRMM)

Infection Risk Management Mode (IRMM) shall be initiated for the entire bank of rooms and corridor.

- Return air damper shall be closed and exhaust air damper open. Exhaust air shall be controlled to maintain negative room pressure differential of 0.01 in wc. Room supply air shall be controlled to maintain 12 ACH.
- Corridor supply and exhaust shall be at pandemic mode flow setpoints.
- Each room monitor shall measure room pressure differential using bidirectional thermal anemometer technology. Each room monitor shall display Negative room mode. Room pressure alarms shall trigger if the room pressure falls outside user-defined setpoints for longer than a user-defined time delay to prevent nuisance alarms. Each room monitor shall communicate to the BAS via BACnet.



# Trusted Solution for Every Application

## Leading facilities use TSI® PresSura™ Room Pressure Monitors and Controls for:

- Airborne infection isolation (AII) rooms
- Protective environment (PE) rooms
- Operating rooms
- Pharmacies
- Infection Risk Management Mode (IRMM)

Local, state or federal laws or regulations may impose additional requirements for a project. Always consult a licensed architect, engineer, or attorney to determine which laws and requirements apply to your specific building or construction project.

Specifications are subject to change without notice.

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