



ACSP Active Compensated Stairwell Pressurization

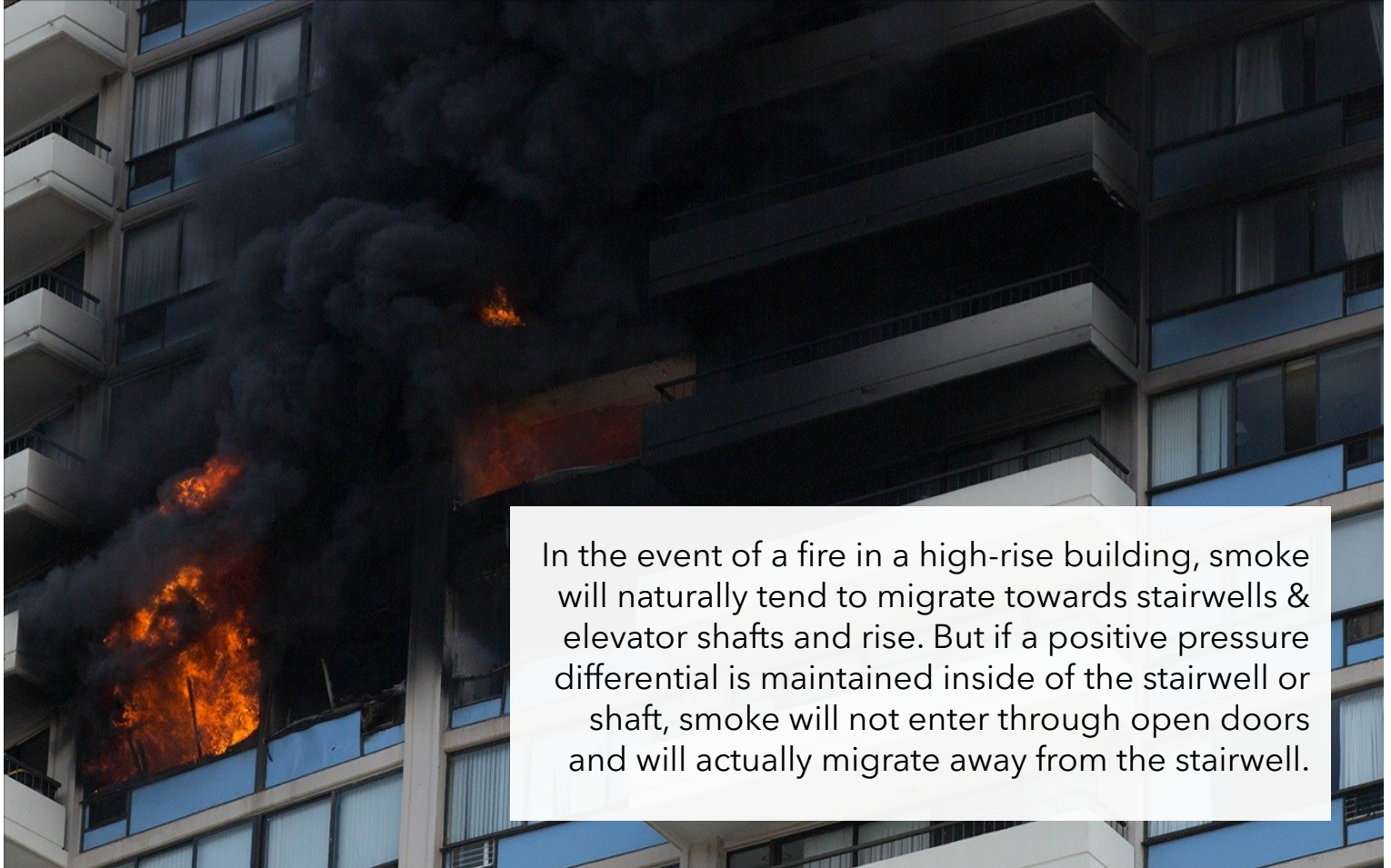


The Active Compensated Stairwell Pressurization System (ACSP) uses the L864 controller from LFSystems to maintain a constant positive pressure in a high-rise building stairwell or multi-zoned area. The L864 includes up to three pressure differential transducers per controller to monitor and control pressure in the pressurized zone. It can also modulate an optional relief damper for precision pressure control.

System features include:

- * Supply Air Fan Control & Monitoring
- * High & Low Pressure Warnings
- * Dedicated Input for FACP/FSCS
- * Modbus Communication Protocol
- * Can be used with **any** variable speed fan rated for Smoke Control

ACSP for Stairwell Pressurization



In the event of a fire in a high-rise building, smoke will naturally tend to migrate towards stairwells & elevator shafts and rise. But if a positive pressure differential is maintained inside of the stairwell or shaft, smoke will not enter through open doors and will actually migrate away from the stairwell.

How does the ACSP work?

When the L864 Constant Pressure Controller receives a start command from either the FSCS or manual pull, it monitors pressure in the stairwell and adjusts the speed of the connected supply fan and optional motorized relief damper to maintain setpoint to ensure a safe and tenable environment in the stairwell and adjacent corridor.

Active Compensated Stairwell Pressurization System Includes:



L864 Point Logic Controller

Listed to UL864

Up to 3 sensor reading standard

7" Color Touchscreen

Variable Frequency Drive

10:1 Turndown



LP4 Differential Pressure Transducer

+/- 1.0" pressure range

Optional Modulating Relief Damper (actuator only)

Fast-acting actuator for quick response

For use with multi-blade design for precise control



For more complex systems or taller high-rise buildings, ask about our Advanced ACSP, the most precise smoke control system in the industry!

LFSystems, a division of R.M. Manifold Group, Inc, is a proud American manufacturer based in Fort Worth, TX. Our mission is to develop leading edge technology for commercial laundry rooms, multi-story residential exhaust and stairwell pressurization controls. Contact LFSystems or your local representative for more information.

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