



## APS2000 Designed Performance

**Total Air Flow Capability:** 2000cfm\*

**Total Volume of Purified air per Hour:** 120,000 cubic feet of air\*

**Yellow Zone w/8ft high walls: 6,688 cubic feet**

Total maximum ACH (negative pressure in rooms): 15.7

**Yellow Zone w/9ft high walls: 7,524 cubic feet**

Total maximum ACH (negative pressure in rooms): 14.0

**Blue Zone w/8ft high walls: 9,541.6 cubic feet**

Total maximum ACH\*: 12.5

**Blue Zone w/9ft high walls: 10,734.3 cubic feet**

Total maximum ACH\*: 11.2

In this scenario, the Yellow Zone will have negative pressure, if negative ducting used, and hospital-grade air purification. Doors are typically kept closed, air leakage rate is acceptable, and room air conditioning individually isolated or cross contamination is mitigated.

The Blue Zone has neutral pressure, and serves as an air purification system for all occupied areas not covered by the yellow zone. The APS System can be installed in any area so long as it is properly ducted. This includes Mechanical Rooms, Janitors Closets, or other options.

**This document is intended for illustration purposes only. Ducting, distributors, and collectors are only representative and are not to be used as an actual design. Actual installations should be performed by a certified HVAC professional as fan speed control and calibration will be required.**

*\*This figure indicates 100% of air is recirculated. If negative air pressure ducting is used to create a negative air space, the recirculated purified air performance is reduced by 200-250cfm.*



**Yellow Zone System** Total: 836 ft<sup>2</sup>  
Exam Rooms: Negative air pressure with hospital isolation room air purification.

**Blue Zone System** Total: 1,192.7 ft<sup>2</sup>  
Wait Room and Offices: Neutral air with UVC lighting; HEPA & Carbon filtration; and air exchanges.

Air Rover APS Systems can be used as a standalone unit or installed with an existing or new HVAC system. Additionally, APS Systems can be located in any convenient indoor or outdoor location, as long as they are accessible for maintenance.

The intent of this illustration is to present two different examples of solutions for retrofitting existing rooms to meet or exceed indoor air quality changes due to the post COVID-19 building code updates.

Notes from the Example Diagram:

- Return Air Collector
- Purified Air Distributor
- ➔ Negative Air Ducting (if used for negative air space)
- ➔ Return Air Ducting
- ➔ Purified Air Ducting