

## YORK EcoAdvance™: Sample Installation Diagram

**Green Arrows** 

DOAS unit supplies building with ventilation outside air (OA) in accordance with the Ventilation Rate Procedure (VRP) of ASHRAE 62.1. OA to individual HVAC AHUs is controlled by VAV box.



**Red Arrows** 

Building exhaust (restrooms, electrical & janitors' closets, relief air) is routed back to DOAS unit for Energy Recovery/OA Pretreatment.

**Blue Arrows** 

Return Air is mixed with pretreated OA (~15% of total Supply Air) at the AHU and recirculated to the zones.

**Unit is installed at each AHU which performs 3 key mechanical functions:**

- Cleans 5-10% of return air continually: 
- Actively takes control of OA Damper or OA VAV box: (black line from unit to green arrow)
- Performs periodic Regeneration that is ducted directly to exhaust chase: 
- A fourth function that is not shown in this diagram is the Wireless IP connection allowing for 24/7 cloud-based control, monitoring, and reporting of unit performance and IAQ.

