

October 2019

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**VP Business Solutions**

# Overview of enVerid and HLR Technology



**Emission**



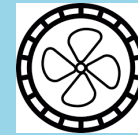
**Energy**



**90%**  
OF OUR TIME  
**INDOORS**



**Poor IAQ**



**Ventilation**



# Apollo 13

A photograph of the interior of the Apollo 13 spacecraft. The image shows various pieces of equipment, including a large rectangular unit with a mesh cover, several circular ports, and a control panel with multiple dials and switches. A white mesh-covered object is visible in the upper right corner. The overall environment is cramped and filled with technical components.

How do submarines  
breathe under water?

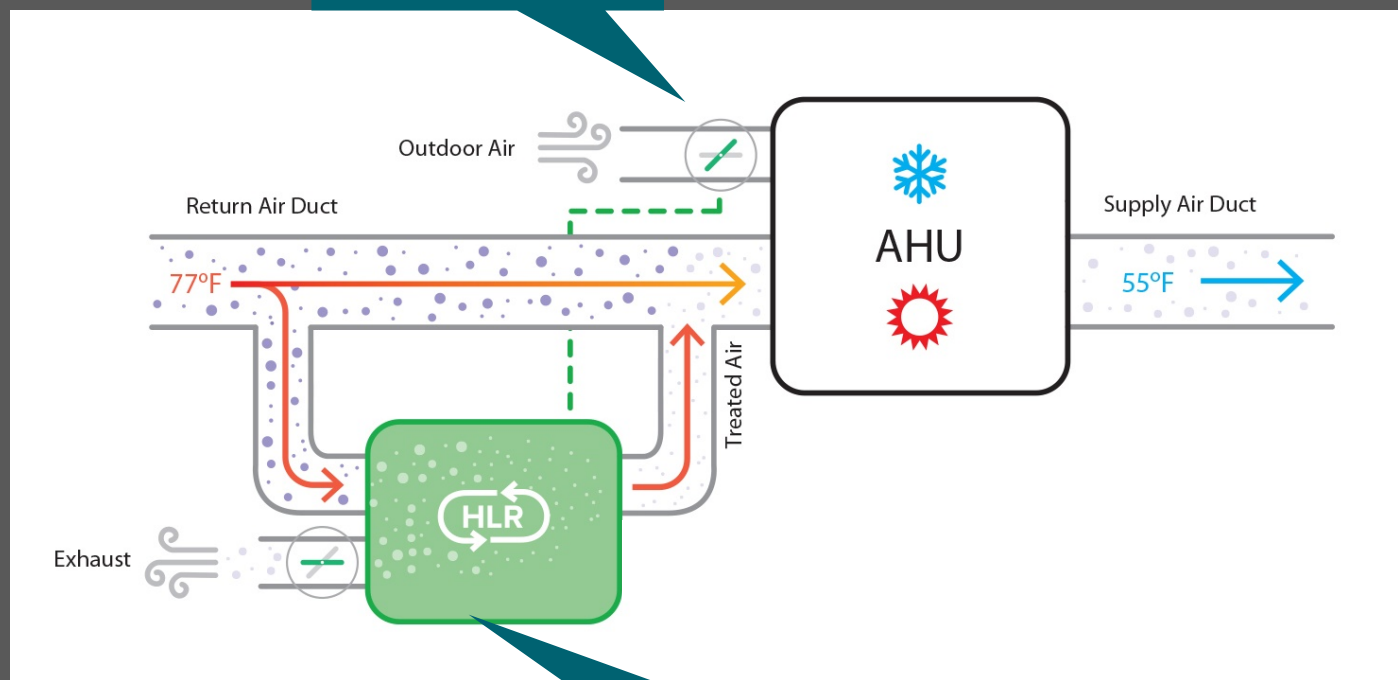
How is CO<sub>2</sub>  
eliminated aboard a  
spacecraft?



# HVAC Load Reduction Module



HLR intelligently controls outdoor airflow

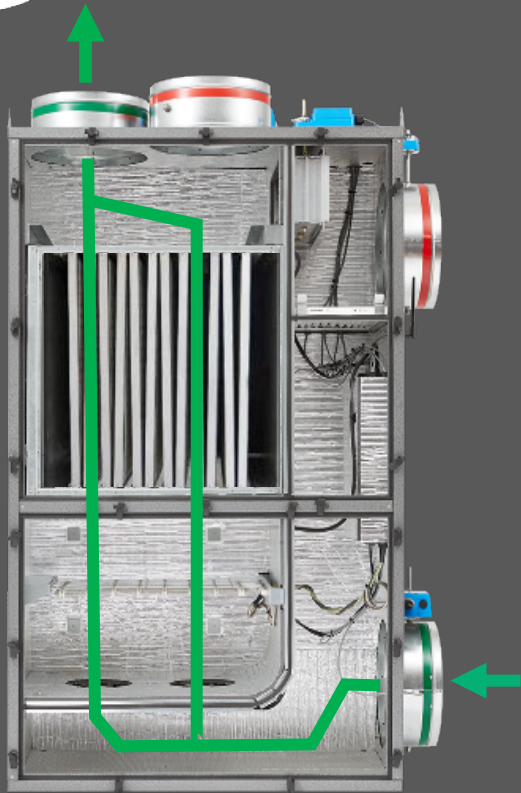


enVerid sorbent mix removes complete range of indoor air contaminants

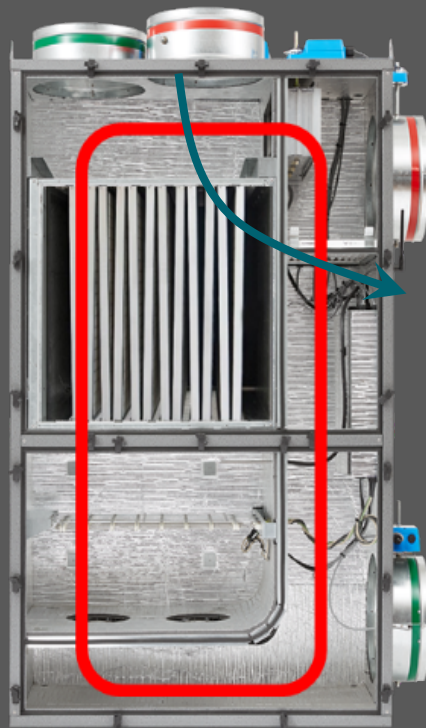




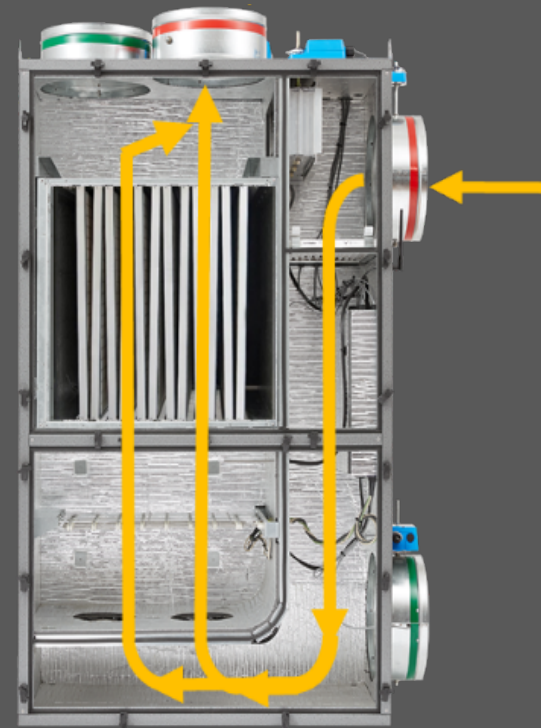
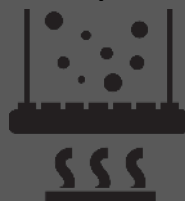
# An in-situ Regenerating Scrubber



**Adsorption** (cleaning indoor air)



**Regeneration part I**  
(closed-loop heating)



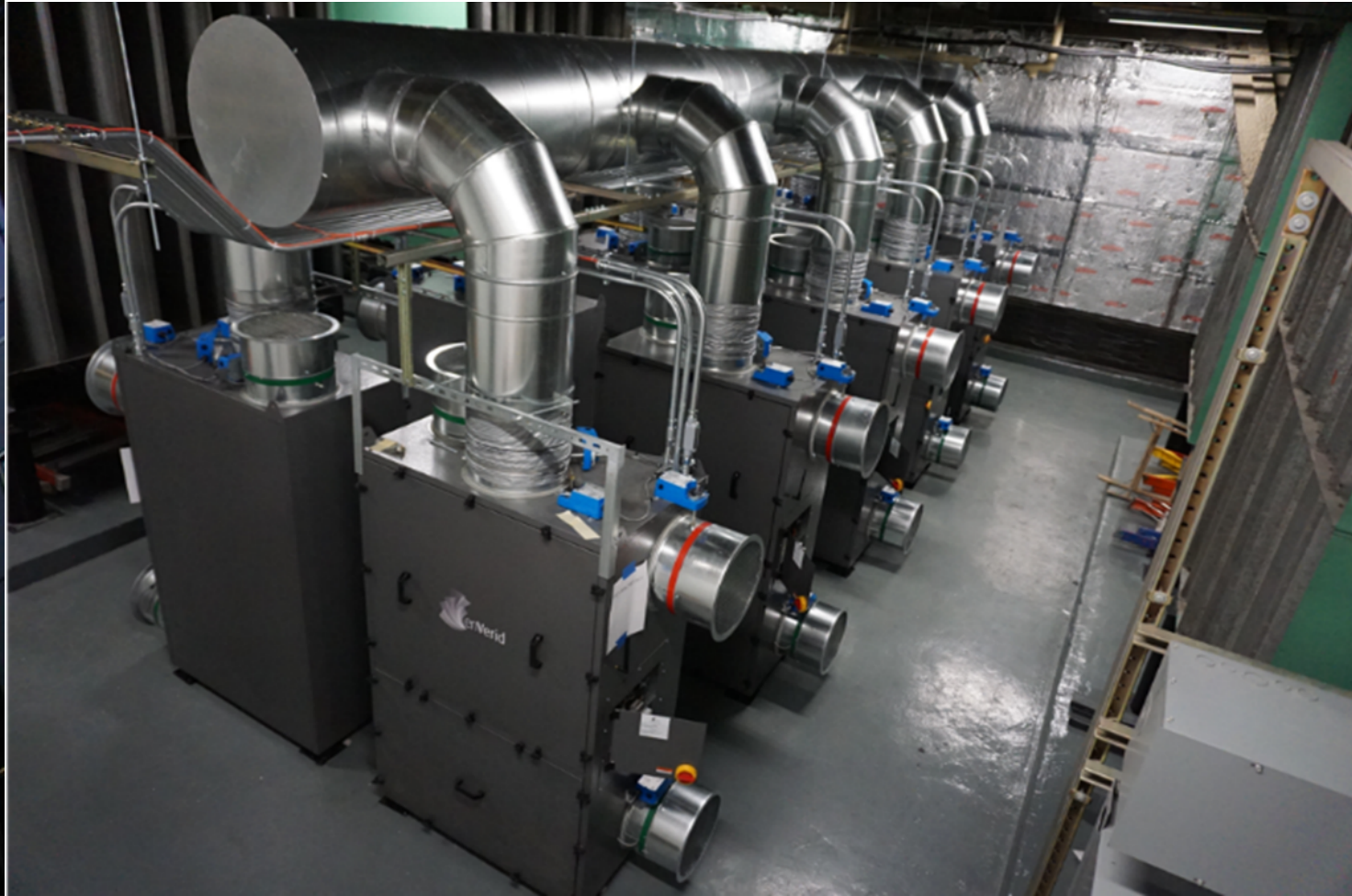
**Regeneration part II**  
(purge/exhaust)







# NYC Skyscraper Installation, 40 HLR Modules





enVerid potential...

300

million metric tons of CO<sub>2</sub> per year<sup>1</sup>

Same as eliminating...

75

coal-fired power plants<sup>2</sup>

1. enVerid analysis for commercial and multi-family (5+ units) apartment buildings based on 2050 commercial and residential SQFT from IEA

2. EPA (2018). [eGRID](#) year 2016 data. U.S. Environmental Protection Agency, Washington, DC. [link](#)