

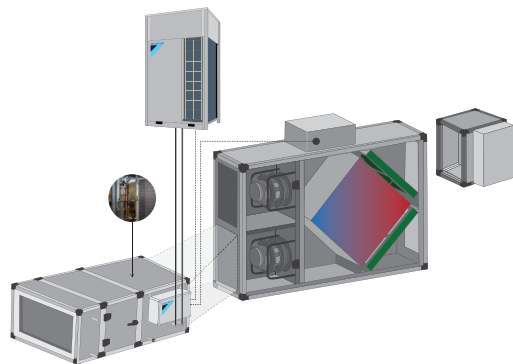
O X Y G E N 8

DEDICATED OUTSIDE AIR SYSTEMS

## SENIOR LIVING AND LONG TERM CARE

**An essential component for keeping our seniors and caregivers safe and healthy.**

Providing fresh, filtered outside air and exhausting stale, contaminated indoor air allows volatile organic compounds (VOCS), CO<sub>2</sub> and viruses to be removed from indoor environments in an energy-efficient way. In some North American senior care facilities, there are inefficient ventilation systems or no ventilation at all. The absence of ventilation and effective filtration in these buildings can lead to increased virus and pathogen transmission.



*ERV integration with Daikin VRV Heat Pump and DX Coil for supplemental heating and cooling.*

**Improved ventilation systems offer significant health, comfort and energy-saving benefits.**

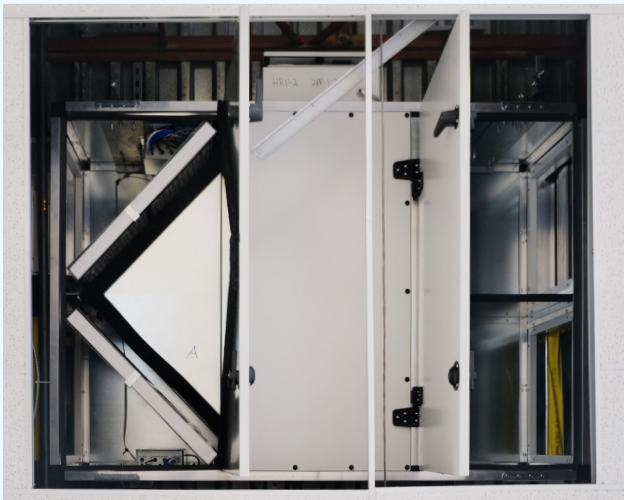
- Dedicated outside air systems (DOAS) have the ability to bring in 100% outside air with no recirculation of contaminated air.
- Facilities can provide high air changes per hour with low energy consumption using energy recovery.
- There is no cross-contamination from the exhaust air stream with the use of fixed plate cores.
- Latent recovery can contribute to keeping space relative humidity in the 40-60% range for optimal occupant health.
- Comfortable air temperatures can be achieved with supplemental heating and cooling.
- All-electric HVAC systems produce no greenhouse gas emissions.

**Did You Know** With reduced levels of CO<sub>2</sub> in indoor spaces, improvements have been found in occupant memory and alertness, as reported by the Harvard T.H. Chan School of Public Health. Increased air changes per hour (ACH) help to lower CO<sub>2</sub> levels. The minimum recommended ACH is 4-5.

|  |                    |
|--|--------------------|
|  | Ideal: 6 ACH       |
|  | Excellent: 5-6 ACH |
|  | Good: 4-5 ACH      |
|  | Minimum: 3-4 ACH   |
|  | Low: <3 ACH        |



Oxygen8 Nova DOAS ventilating the activities and crafts room at a British Columbia senior care facility.

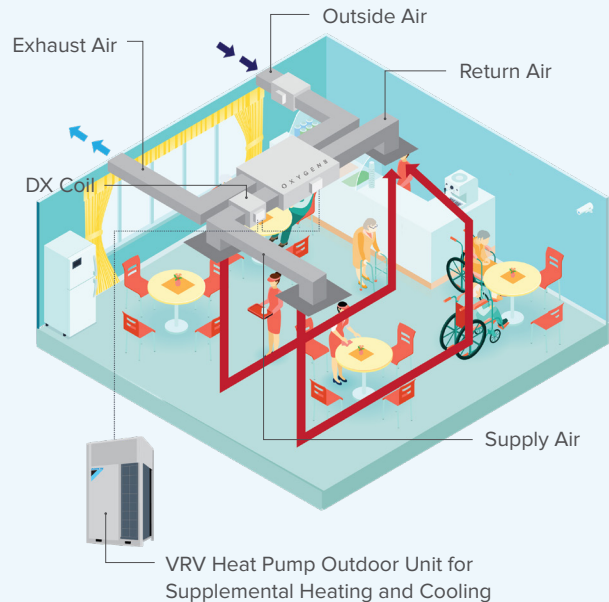


2 more Nova DOAS are located in the facility's Town Hall, where residents gather to dine and celebrations are held.

#### Benefits of Decentralized Ventilation.

Using decentralized ventilation, each energy recovery unit delivers fresh, filtered outside air directly to the occupied space, while stale air is exhausted. Decentralized ventilation eliminates the need for vertical duct chases, rooftop units and bulky equipment. Low-profile ERVs can be floor, wall or ceiling mounted to fit into drop ceilings and mechanical rooms with limited space. ERV cores have latent recovery to help maintain relative humidity between 40-60% in the cold, dry winter months. The polymer membrane cross-flow core design means there is no possibility of virus cross-over in the space.

#### Easy to Retrofit Low Profile Solutions for Retrofit or New Building Construction



## Oxygen8 Solutions

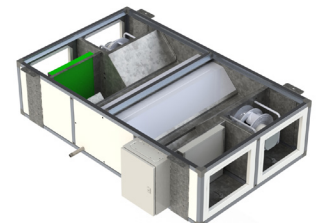
### Ventum

#### Common Areas

60" x 40" x 20"

400 – 3000 cfm

**Features** Counter-flow Enthalpy Core, ECM Fans, Factory Mounted Controls & BMS Integration,



### Nova

#### Common Areas

70" x 42.5" x 20"

400 – 8100 cfm

**Features** Cross-flow Enthalpy Core, ECM Fans, Factory Mounted Controls & BMS Integration



### Vita

#### Suites

36" x 36" x 16.125"

350 – 500 cfm

**Features** ECM Fans, Counter-flow Core, Wall Switch, Basic Controls

