

WELL Points for Sorbent Ventilation Technology®

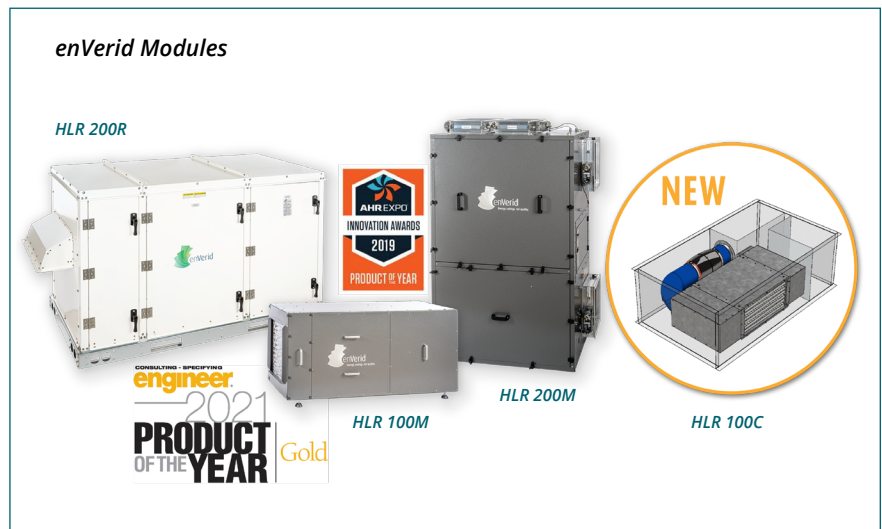
Achieving WELL v2 Points in New Construction and Existing Buildings



INTRODUCTION

The WELL Building Standard, or WELL, is the International WELL Building Institute’s (IWBI) globally recognized building certification program that provides a framework to advance the health and well-being of building occupants. Implementing enVerid’s Sorbent Ventilation Technology® (SVT®) can help buildings earn WELL points in the Air concept category.

New constructions and retrofits can incorporate SVT into HVAC designs to earn up to 2 preconditions and 6 optimization points in the Air concept under WELL v2. SVT improves indoor air quality (IAQ) by cleaning and recycling indoor air, allowing better control over indoor contaminant levels while reducing outside air requirements, thereby lowering heating and cooling energy consumption



Achieving WELL Preconditions

Incorporating SVT into the mechanical design assures that the project can reliably meet the base threshold limits for benzene, formaldehyde, toluene, and ozone under the *Air Quality* precondition. The *Ventilation Design* precondition explicitly allows the ASHRAE 62.1 Indoor Air Quality Procedure (IAQP) to be used as a ventilation compliance path; integrating SVT under the IAQP ensures that high indoor air quality is maintained for the health of occupants.

WELL Feature	REQUIREMENTS		POINTS
A01: Air Quality	Part 1: Meet Thresholds for Particular Matter	PM2.5 less than 15 µg/m ³	Precondition
		PM10 less than 50 µg/m ³	
	Part 2: Meet Threshold for Organic gases	Part a. Benzene less than 10 µg/m ³	
		Part b. Formaldehyde less than 50 µg/m ³	
Part c. Toluene less than 300 µg/m ³			
Part 3: Meet Thresholds for Inorganic Gases	Part b. Ozone less than 100 µg/m ³		
A03: Ventilation Design	Part 1: Ensure Adequate Ventilation	Path 1. Comply with ASHRAE 62.1-2010 or latest version, IAQ Procedure	Precondition

Achieving WELL Optimizations

SVT can earn up to 3 points under the Enhanced Air Quality feature by meeting enhanced threshold limits without increasing ventilation.

WELL Feature	REQUIREMENTS		POINTS
A05: Enhanced Air Quality (4 points max)	Part 1: Meet Enhanced Thresholds for Particulate Matter	PM2.5 less than 12 µg/m ³ PM10 less than 30 µg/m ³	1
		PM2.5 less than 10 µg/m ³ PM10 less than 20 µg/m ³	2
	Part 2: Meet Enhanced Thresholds for Organic Gases	Acetaldehyde: 140 µg/m ³ or lower	1
		Benzene: 3 µg/m ³ or lower	
		Formaldehyde: 9 µg/m ³ or lower	
Naphthalene: 9 µg/m ³ or lower			
Toluene: 300 µg/m ³ or lower			

Additionally, projects using SVT can earn up to 3 points by submitting an Alternative Adherence Path (AAP) on the following WELL features. Assistance on submitting an AAP is provided for free by enVerid.

WELL Feature	REQUIREMENTS		POINTS
A06: Enhanced Ventilation Design	Part 1: Increase Outdoor Air Supply	Option 2: Demand Control Ventilation (DCV): Regulate CO ₂ levels at maximum intended occupancy below thresholds. 900 ppm	1
		AAP: Install SVT Modules in lieu of DCV to regulate CO ₂ levels 750 ppm	2
A13: Enhanced Supply Air	Part 1: Improve Supply Air	Option 2: Cleaning and purification devices. AAP: Install SVT Modules in lieu of Activated Carbon Filters and meet all other requirements listed under this option.	1

enVerid Systems' award-winning Sorbent Ventilation Technology® (SVT®) reduces the cost and carbon emissions of heating, ventilating, and air conditioning commercial buildings and increases their resiliency to polluted outside air. SVT delivers these benefits by filtering harmful contaminants from indoor air so that indoor air quality can be maintained with less outside air ventilation, which is energy intensive and expensive to condition and may be polluted. Reducing outside air requirements enables building owners to install smaller, less expensive HVAC systems that use less energy and to operate existing HVAC systems more energy efficiently. SVT is available in systems sold by leading HVAC manufacturers such as Daikin and Oxygen8 and in enVerid's HVAC Load Reduction® (HLR®) modules, which can be easily integrated with HVAC systems from any manufacturer. Over 1,000 HVAC systems with SVT have been designed into commercial, academic, and government buildings globally over the past ten years in full compliance with ASHRAE Standard 62.1 and the International Mechanical Code. SVT can also be used to earn LEED and WELL points. For more information, please visit enverid.com.