

O X Y G E N 8

# **VENTUM+**

Installation, Operation, and Maintenance

135004-002

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# 1.0 GENERAL INFORMATION

This manual includes important instructions for safe connection of the Energy Recovery Ventilator (ERV). Before connecting the unit, please read carefully and follow the instructions.

The manufacturer reserves the right to make changes, including changes in the technical documentation, without previous notification. Please keep this manual for future reference. Consider this manual a permanent part of the product.

This manual will show the manufacturers' recommended installation method. Please note that local codes and regulations may override these recommendations. The installation must follow local codes and standards.

The National Electric Code (NEC), the National Fire Protection Agency (NFPA), and the Canadian Electrical Code (CEC) must be followed. Installation of this product must be performed by a qualified and accredited professional in conformance with local and national codes, standards and licensing requirements.



**Caution:** This sign indicates a potentially hazardous situation, which may result in minor or moderate injury if not avoided. It may also alert against unsafe practices.



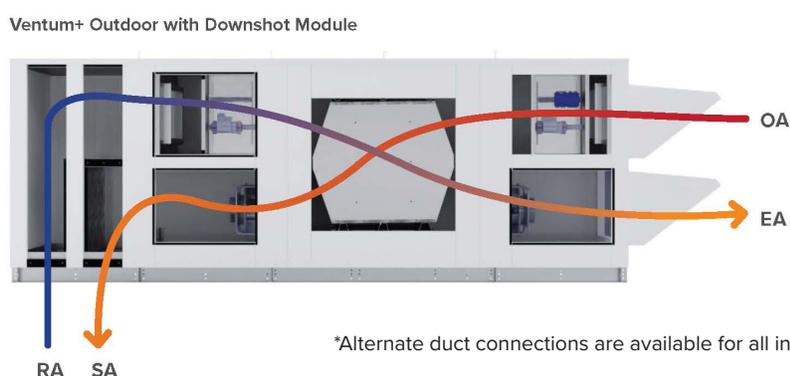
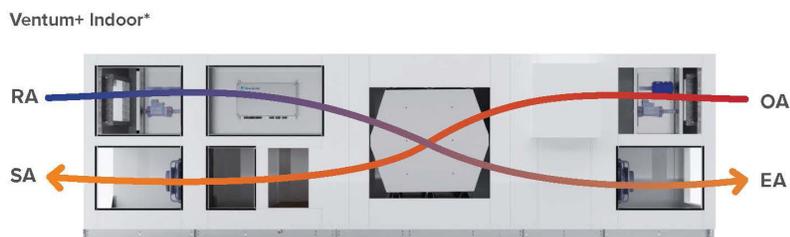
**Warning:** This sign indicates a situation that may result in equipment or property damage accidents.



**Danger:** This sign indicates a potentially hazardous situation, which could result in death or serious injury if not avoided.

## 2.0 SYSTEM OVERVIEW

Standard units come complete with ERV or HRV energy recovery option, EC fans, 2" filters, fully integrated controls and casing as outlined in the spec below.



\*Alternate duct connections are available for all indoor units

### 2.1 General Specifications

#### Standard Features

##### Certification

AHRI and ETL Certified

##### Casing

Double-wall 2" insulation for compact indoor models

Galvanized steel inner panel with pre-painted white outer panel

##### Electrical and Controls

Configurable integrated controller with BACNet compatibility

Single point power

##### Filters

4" pleated OA MERV 13, RA MERV 8

##### Blowers and Motors

High-efficiency variable speed EC direct drive motor  
Backward inclined fan

##### Standard Warranty

Unit - 2 years from shipping

##### Mounting

Floor or roof curb mounted.

#### Options

##### Integrated Heating and Cooling

Hydronic, Electric, DX and Hot Gas Reheat Coils (using EEV kit) and pre-heat available

##### Bypass Damper

Bypass economizer, bypass defrost

##### Shut Off Damper

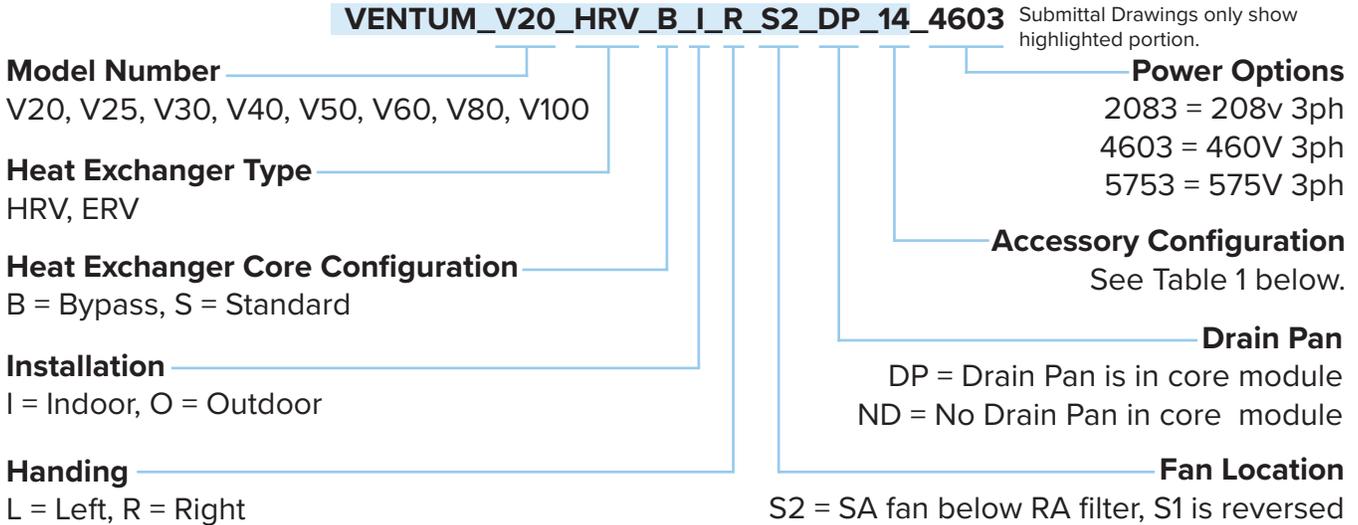
Outdoor and exhaust air dampers (unit or duct mounted)

##### Frost Control

Electric Preheat or bypass defrost.

# 3.0 CONFIGURATION CHART

## 3.1 Nomenclature \*The following is a complete description of the range of model numbers and nomenclature.

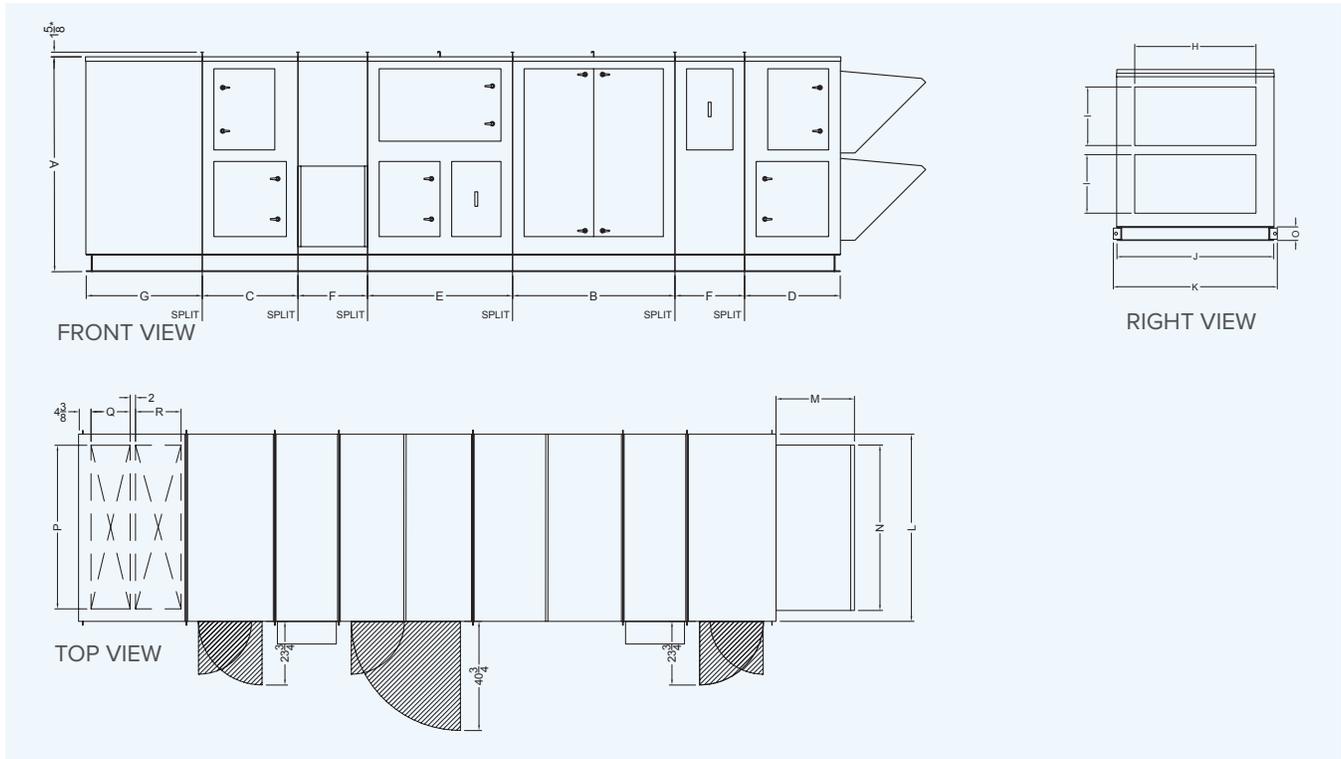


**Table 1: Accessory Configuration Numbers**

Standard	Downshot	EH		HWC		CWC	DX	HGRH
		PRE	POST	PRE	POST			
0	25							
1	26	x						
2	27			x				
3	28		x					
4	29				x			
5	30	x	x					
6	31			x	x			
7	32						x	
8	33							x
9	34					x		
10	35				x	x		
11	36	x					x	
12	37			x			x	
13	38	x					x	x
14	39			x			x	x
15	40	x				x		
16	41			x		x		
17	42	x			x	x		
18	43			x	x	x		
19	44		x				x	
20	45				x		x	
21	46		x			x		
22	47	x	x				x	
23	48			x	x		x	
24	49	x	x			x		

# 4.0 UNIT SPECIFICATIONS

## 4.1 Dimensions



Size	Description	V20	V25	V30	V40	V50	V60	V80	V100
A	Overall Height	56	62	66	74	84	84	100	100
B	Core Section	51.5	51.5	51.5	56	65	65	72.5	72.5
C	Supply Section	33	33	33	33	33	33	33	33
D	Exhaust Section	33	33	33	33	33	33	33	33
E	Coil Section	50	50	50	50	50	55	55	55
F	Heater (EC/HWC) Section	24	24	24	24	36	36	36	36
G	Downshot Section	32	32	32	40	40	40	44	44
H	Duct Opening Width	40.6	40.6	53.8	53.8	53.8	61.9	61.9	74.1
I	Duct Opening Height	18	21	22	26	31	31	38	38
J	Base Width	56.4	56.4	69.5	69.5	69.5	85.6	85.6	101.9
K	Lug-Lug Width	59.6	59.6	72.8	72.8	72.8	88.9	88.9	105.1
L	Casing Width	56.9	56.9	70	70	70	86.1	86.1	102.4
M	Hood Length	38.1	43.9	53.4	61.4	71.9	77.8	94.6	104.7
N	Hood Width	48.625	48.6	61.8	61.8	61.8	69.9	69.9	82.1
O	Base Height	4	4	6	6	6	6	8	8
P	Downshot Opening Width	48	48	61.1	61.1	61.1	77.3	77.3	93.5
Q	Downshot RA Length	10.625	10.6	10.6	14.6	14.6	14.6	16.6	16.6
R	Downshot SA Length	13	13	13	17	17	17	19	19

## 4.2 Performance

Model	Max Airflow cfm	ERV With Bypass			ERV No Bypass			HRV No Bypass	HRV with Bypass
		SRE	LRE	TRE	SRE	LRE	TRE	SRE	SRE
<b>V20</b>	1,800	72.5	57.4	63.2	75.7	63.3	68.0	82.5	81.1
<b>V25</b>	2,400	72.5	57.4	63.2	75.7	63.3	68.0	82.5	81.1
<b>V30</b>	3,200	72.5	57.4	63.2	75.7	63.3	68.0	82.2	81.1
<b>V40</b>	4,000	72.5	57.4	63.2	75.7	63.3	68.0	82.2	81.1
<b>V50</b>	4,800	72.7	58.4	63.9	75.8	63.9	68.5	81.4	72.7
<b>V60</b>	6,400	72.7	58.4	63.9	75.1	62.6	67.4	81	72.7
<b>V80</b>	8,000	72.7	58.4	63.9	75.1	62.6	67.4	81	72.7
<b>V100</b>	10,000	72.7	58.4	63.9	74.8	62	66.9	80.7	72.7

### 4.3 Replacement Filter Sizing

The following include nominal sizes of 4-inch thickness MERV8 or MERV13 filters (depending on the unit specifications). The listed sizes and quantities apply to each filter module; the unit total including Outdoor Air and Return Air filters will be double the listed quantities.

Model #	Thickness [in.]	Filters per module – Size [in.] (quantity)
V20	4	16x16 (1), 16x20 (1)
V25	4	18x18 (1), 18x24 (1)
V30	4	16x20 (1), 20x20 (2)
V40	4	18x24 (3)
V50	4	18x12 (3), 18x18 (3)
V60	4	12x18 (4), 18x18 (4)
V80	4	16x16 (3), 16x20 (4), 20x20 (1)
V100	4	18x18 (2), 18x24 (6)

### 4.4 Replacement Transformer Fuse Sizes

The following fuses can be accessed through the Exhaust Fan access door. Table 2 below includes ratings for internal mini CC TD style fuses protecting the 24V transformer and the 460-230V stepdown transformer for 460V applications with VRV:

Model #	24V Transformer Fuses			460V Stepdown Transformer Fuses	
	208/60/3	460/60/3	Quantity	460/60/3	Quantity
V20	3/4	3/10	2	3/4	2
V25	3/4	3/10	2	3/4	2
V30	3/4	3/10	2	3/4	2
V40	3/4	3/10	2	3/4	2
V50	3/4	3/10	2	3/4	2
V60	3/4	3/10	2	3/4	2
V80	3/4	3/10	2	3/4	2
V100	3/4	3/10	2	3/4	2

### 4.5 Replacement Daikin VRV EKEQ (D/W-)Controller Fuse Sizes

Located in the VRV module enclosure with the EKEQs, mini CC TD style fuses protecting the EKEQ controllers (230V) are all sized at 3/4 A, qty two (2) for each EKEQ controller.

## 5.0 ELECTRICAL INFORMATION

Standard Units								
Model	Max. Airflow	Voltage	Single Fan FLA	Fan Total Qty	Unit FLA	MCA	MOP/RFS (A)	SCCR (kA)
V20	1800	208	6	2	12.8	13.5	15	5
		460	4	2	8.6	9.0	15	5
		575	4	2	8.4	9.0	15	5
V25	2400	208	8.6	2	18.0	19.4	25	5
		460	5.8	2	12.2	13.1	15	5
		575	4.2	2	8.8	9.5	15	5
V30	3200	208	9	2	18.8	20.3	25	5
		460	5.4	2	11.4	12.2	15	5
		575	4.8	2	10.0	10.8	15	5
V40	4000	208	6	4	24.8	25.5	30	5
		460	4	4	16.6	17.0	20	5
		575	4	4	16.4	17.0	20	5
V50	4800	208	8.6	4	35.2	36.6	45	5
		460	5.8	4	23.8	24.7	30	5
		575	4.2	4	17.2	17.9	20	5
V60	6000	208	9	4	37.1	38.3	45	5
		460	5.4	4	22.2	23.0	25	5
		575	4.8	4	19.6	20.4	25	5
V80	8000	208	8.6	6	52.9	53.8	60	5
		460	5.8	6	35.5	36.3	40	5
		575	4.2	6	25.7	26.3	30	5
V100	10000	208	9	6	55.3	56.3	60	5
		460	5.4	6	33.1	33.8	35	5
		575	4.8	6	29.3	30.0	30	5

**RA** Return Air

**SA** Supply Air

**MCA** Minimum Circuit Ampacity

**MOP/RFS** Maximum Over Current Protective Device / Recommended Fuse Size

Data is relevant for H/ERV-only units. For electrical data involving single-point power electric heaters, please refer to the project-specific submittal.

Passive House Units								
Model	Max. Air-flow	Voltage	Single Fan FLA	Fan Total Qty	Unit FLA	MCA	MOP/RFS (A)	SCCR (kA)
V20	1800	208	6	2	12.8	13.5	15	5
		460	4	2	8.6	9.0	15	5
V25	2400	208	8.6	2	18.0	19.4	25	5
		460	5.8	2	12.2	13.1	15	5
V30	3200	208	9	2	18.8	20.3	25	5
		460	5.4	2	11.4	12.2	15	5
V40	4000	208	10	2	20.8	22.5	30	5
		460	3.9	2	8.4	8.8	15	5
V50	4800	208	10.5	2	21.8	23.6	30	5
		460	5.6	2	11.8	12.6	15	5
V60	6000	208	10.5	2	22.1	23.6	30	5
		460	4.6	4	19.0	19.6	20	5
V80	8000	208	10	4	41.3	42.5	50	5
		460	5.4	2	11.4	12.2	15	5
V100	10000	208	10.5	4	43.3	44.6	50	5
		460	5.6	4	23.0	23.8	25	5

**RA** Return Air

**SA** Supply Air

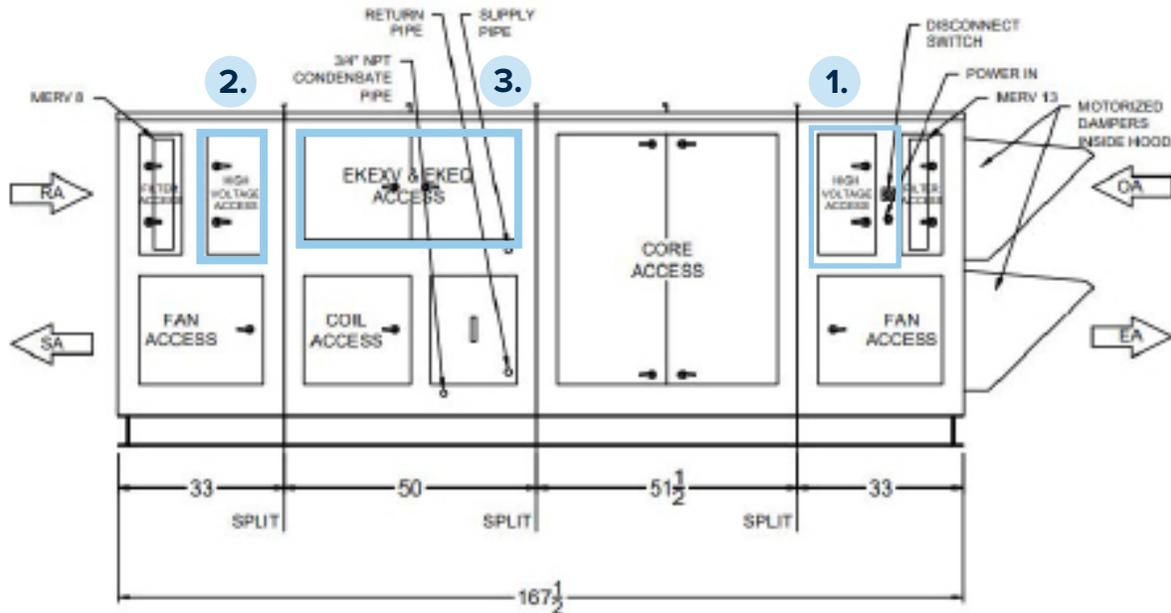
**MCA** Minimum Circuit Ampacity

**MOP/RFS** Maximum Over Current Protective Device / Recommended Fuse Size

Data is relevant for H/ERV-only units. For electrical data involving single-point power electric heaters, please refer to the project-specific submittal.

## 5.1 Electrical Panel Access

The following image provides an example unit layout of the access locations to electrical components in Ventum+ for reference and context with understanding of the subsequent wiring diagrams.



**1. Main controls cabinet c/w Distech controller and disconnect switch**

**2. Secondary electrical panel through RA filter access**

**3. VRV control enclosure (optional)**

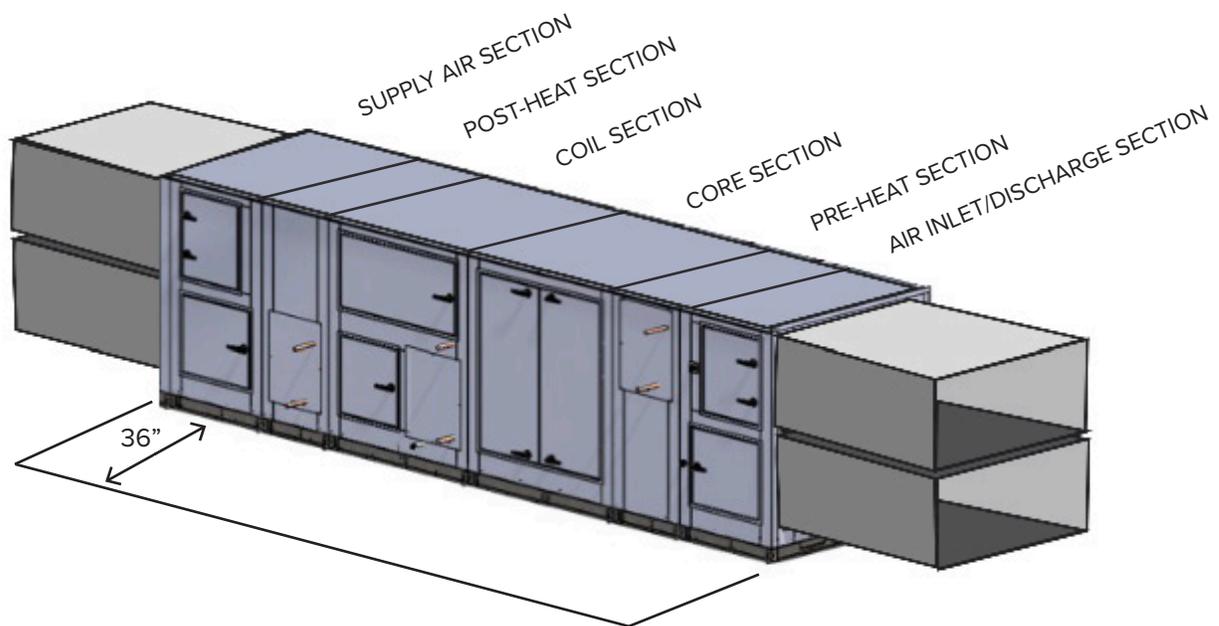
Fused protection of EKEQ Controllers located here with EKEQs.  
EKEV valve kits located here and below via "COIL ACCESS".

## 5.2 Clearances

### Indoor Unit Clearances

#### Indoor Unit Service Clearance

The National Electrical Code (NEC) requires 36 inches of clearance from an electrical connection. For Ventum+, with front-facing integral electrical panels, the 3' must be measured from the front of the unit. The unit should be positioned such that all access doors are unrestricted. Since there are multiple control panels in the unit, it is generally recommended to provide 3' clearance along the length of the front of the unit. When selecting an installation location for the Ventum+ unit, please refer to the following diagram and adhere to the clearance requirements for access to components for maintenance and NEC guidelines for electrical component access.



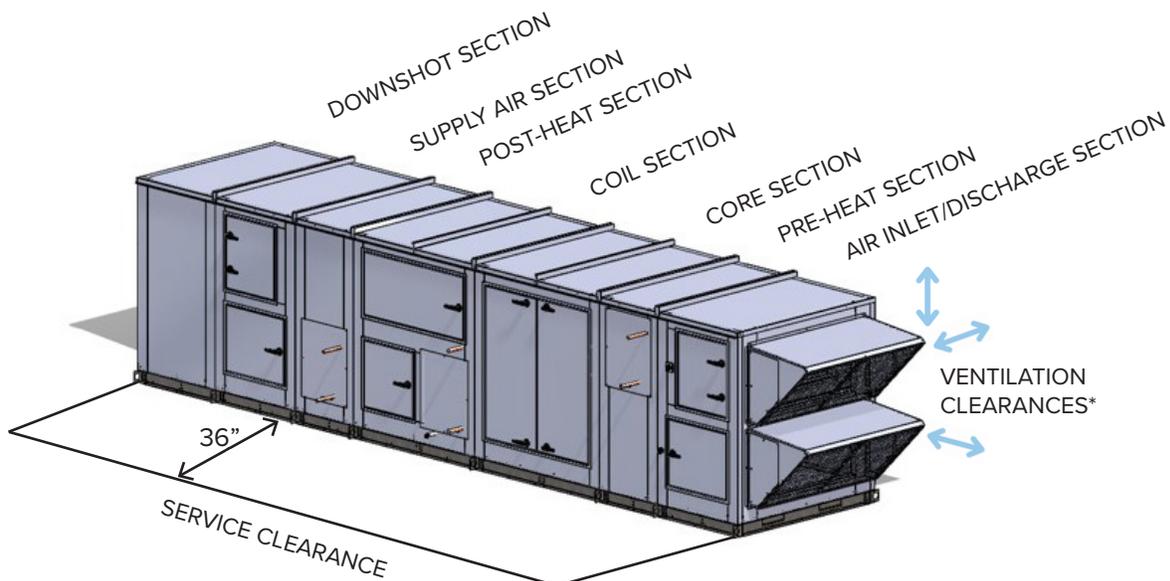
## Outdoor Unit Clearances

### Outdoor Unit Service Clearance

Provide outdoor/rooftop unit service clearances for as generally outlined for indoor units. Additionally, Oxygen8 advises installing a roof walkway leading to the rooftop unit, as well as along each side of the unit where necessary to enable access to the controls and serviceable components.

### Outdoor Unit Ventilation Clearance

To ensure the unit performs as specified, it is recommended as a general rule that a clearance of at least 8 ft between the end of the weather hoods and physical barriers such as walls or solid fences be maintained. Depending on the specific conditions, the engineer of record shall make a judgement call to overrule recommended minimum required ventilation clearance. Air Recirculation Prevention – Proper clearances are essential to prevent exhaust from entering the outdoor air intake. Exhaust hoods may alternatively be installed on the back of the unit as a special to mitigate recirculation risk.



\*See additional instructions below for ventilation clearances.

## Units Bounded by a Screen/Fence

1. Ensure that the bottom edge of any screen or fence is positioned a minimum of 1 ft above the roof surface.
2. Maintain the clearance between the unit and the screen or fence as specified for service clearance plus 1 ft at the back of the unit.
3. Keep at least 10 ft of space between any two units located within the same screen or fenced area.

## Units Bounded by Solid Walls

1. If the unit is bordered by walls on one or two adjacent sides, the walls can be any height.
2. If the unit is surrounded by walls on more than two adjacent sides, the walls should not exceed the height of the unit.
3. Maintain a minimum clearance of 8 ft between the unit and any wall on all sides.
4. Ensure there is at least 10 ft of space between any two units located within the walls.

Do not locate outside air intakes near sources of contaminated air.

If the unit is installed where windy conditions are common, install wind screens around the unit, maintaining the clearances specified (see Figure 1). This is particularly important to maintain adequate head pressure control when mechanical cooling is required at low outdoor air temperatures.

## Overhead Clearance

Units that are enclosed by screens or solid walls must remain free of any overhead obstructions. The following guidelines apply regarding overhead clearance above the air handler section:

- No overhead structures are permitted directly above the exhaust hood.
- Any overhead obstruction must be positioned at least 8 ft above the top of the unit.
- Areas above the outside air and exhaust dampers must remain unobstructed when they are more than 2 ft away from the side of the unit..

## 6.0 INSTALLATION

### 6.1 Unwrapping the Product

When removing the shrink wrap, be cautious with knives and sharp tools to prevent scratching the paint. The HMI, temperature + humidity sensor, external duct pressure sensor and all other optional field components will be found in the electrical box or fan compartment. They are secured there for transport and to easily find them on the job site.

Ventum+ units will ship one of two ways. On a tarped flat bed or a covered trailer:

#### Tarped Flat Bed

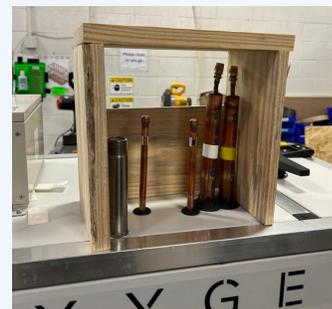
When the consignee needs to unload from ground level or via crane. This is also the case if the height of the unit exceeds the height of the trailer or bay door (Usually around 96 to 105 inches)

Units are split into sections and wrapped first in cardboard, then 6mil blue poly. A wood frame is secured on top to distribute the load of the flatbed straps and protection when using a crane.

Once strapped to the bed of the trailer, heavy tarps are used to protect from moisture and debris.

It is recommended to remove the external packaging using scissors rather than a knife to avoid scratching the unit.

Once external packaging is removed, there may be additional wood bracing or supports inside the section to prevent misalignment and bending. All external piping is also protected.



**Note:** These sections are not placed on pallets and must be moved using the fork slots in the baserail.

## Covered Trailer

Units is below height limits and consignee has a loading bay. Units are packaged in the same way as above; however, they are secured to a two-way pallet.

These pallets ship inside a trailer and are screwed down to the trailer bed along with being strapped to the walls to prevent sliding during transit.

## 6.2 General Material Handling

All Ventum+ modules are shipped in separate pieces, rarely with multiple modules on one skid. Do not remove screws or straps until modules are being set in their install location.

If modules are connected together in the factory prior to shipping, they must not be separated on site.

**Do not lift modules after bolting together.**

Each module is complete with a layer gasketing to seal the unit at each split (one layer per split). **Ensure this gasketing is not damaged during handling.**

## 6.3 Crane or Gantry

When lifting the individual modules with a gantry or crane, first remove unit packaging, and use the provided lifting lugs at each corner of the baseframe.

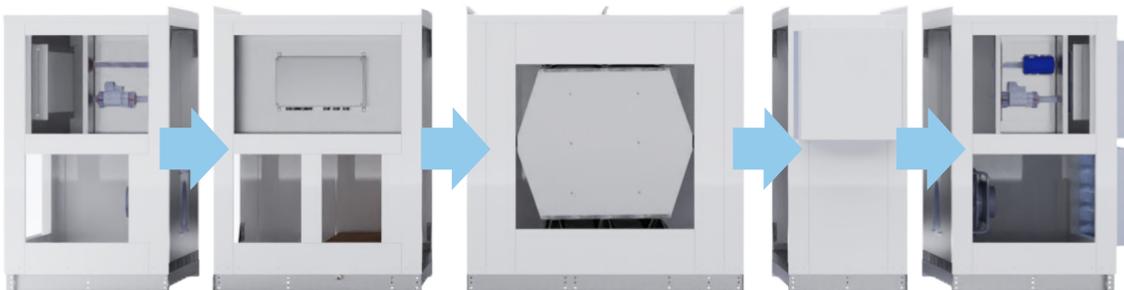
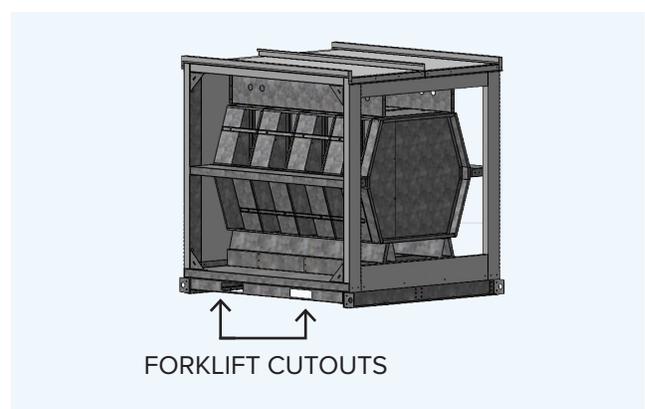
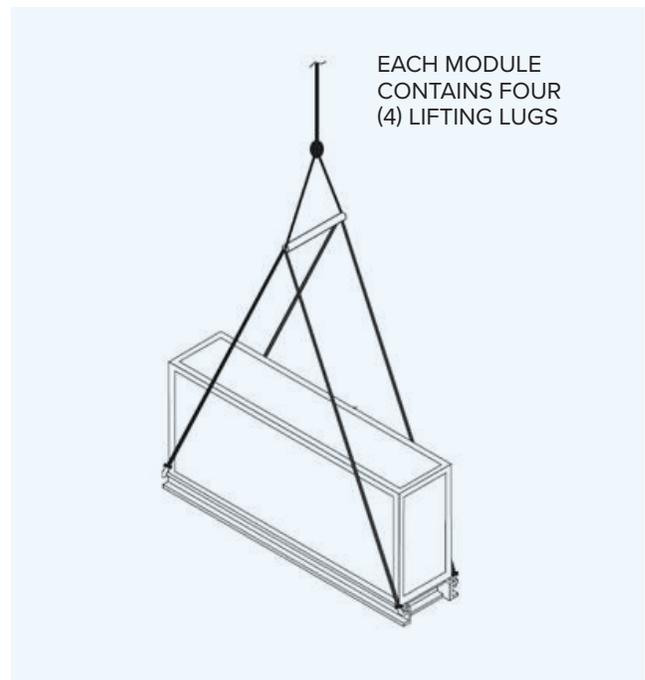
Provide appropriate cross-bracing to ensure no damage to the unit modules occur while lifting.

## 6.4 Ground Level Module Handling

To remove from the shipping blocks individual modules should be lifted by the provided forklift openings in the baseframe, or underneath the crossbeams (see figure on right). Ensure that the forklift is supporting the full width of the module when lifting.

Using the provided forklift cutouts will help with positioning the modules to be connected. The sections are placed as close to the adjacent section as possible using a forklift then brought together using the lifting lugs. At this point, the top internal brackets pull the tops of the sections together to create a seal.

Modules will be shipped in order of final installation. If the modules become separated and disorganized, refer to the shop drawings for guidance.



## 6.5 Wiring Connections

Wire connections and bolted cabinet connections must be completed one module at a time.

**Do not pull wiring taught when connecting quick connects** – if this cannot be achieved, move the modules closer together and try again. Ensure all wiring connections are fully secured.

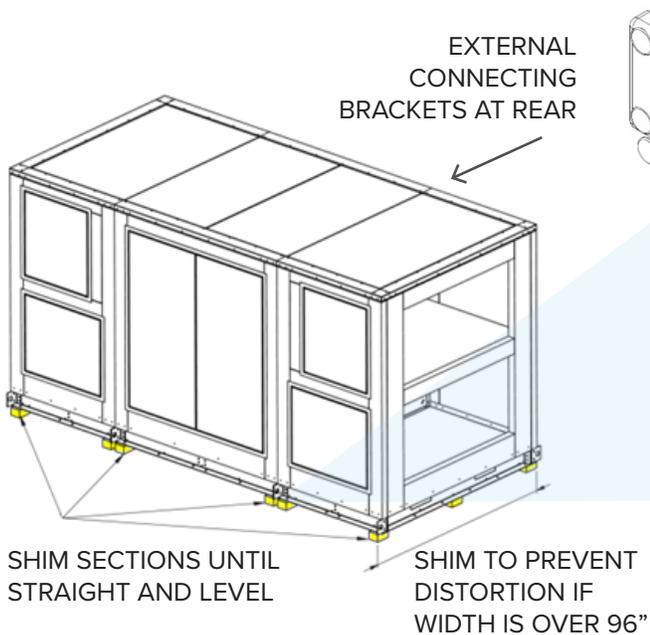


## 6.6 Bolted Module Connections

### Module Assembly

Inspect the gasketing on the modules; there should be a layer on one of the two faces as seen in the adjacent image.

**Note:** If any gasket is damaged, please contact Oxygen8 for replacement. Repair any damages prior to assembly.



**Note:** Connecting bracket design may vary and use one bolt instead of two in the example shown.

Prior to bolting units together, remove skid and wood blocks and align all modules.

Ensure the modules are level over the entire unit length and wedge using shims (shims are not provided with unit).

Using the hardware provided, align the sections together at the holes in all four lifting lugs (see images above).

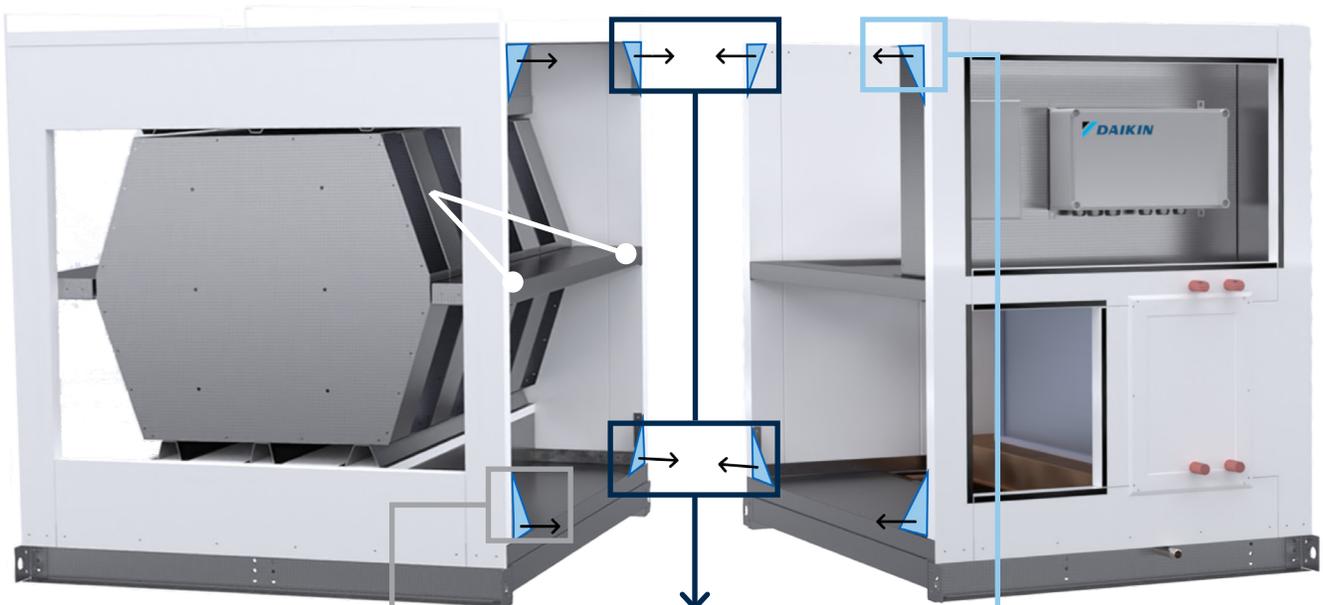
**Do not tighten fully.**

The frame couplers are complete with M6 bolts. When connecting the frame couplers, it is recommended to use a flexible driver tool extension.

**Note:** Aluminum connecting brackets are installed at each required module split. Two M6 bolts are provided for each pair of brackets; a M6 bit will be provided.

Once lifting lug holes are bolted together, align brackets to the inside edges of the module openings. See below.

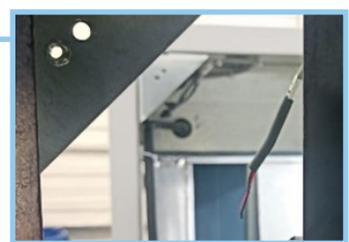
For larger unit sizes, additional split connection brackets are provided at the midpoints of the cabinet openings for added support.



Rear connectors have limited access from the front access doors. If the connecting brackets are not provided at the rear, refer to the Core Removal section.

Ensure all wiring is secured and out of the way of cabinet connections and will not catch or obstruct any part of the unit during operation.

Inside each electrical box there is a hole to allow easy access to the internal corner brackets. Once the unit is connected, these holes must be covered by a plate that is shipped inside the electrical box.



In some cases, it may not be possible to access the bottom rear connectors. In this case, the internal corner brackets that are inaccessible will be removed by the factory and it is acceptable to only connect the bottom corner with the lifting lugs.

When all connectors are lined up and bolts are hand tightened then they can all be fully tightened to connect the sections together.

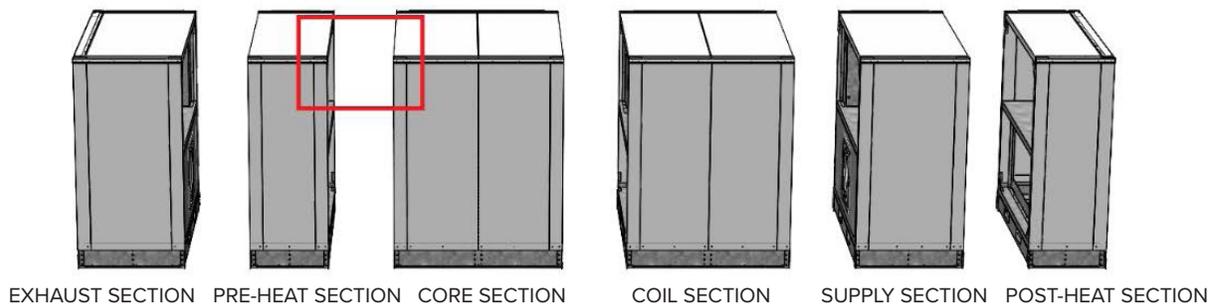
## 6.7 External Rear Connectors

Follow standard instructions for connecting modules at the base (front and back lifting lugs) and the internal joining brackets at the front of the unit. All these locations are easily accessible from the exterior and through the access doors of the unit.

For joining the sections at the rear of the modules, please use the following instructions outlining the use of external connecting brackets.

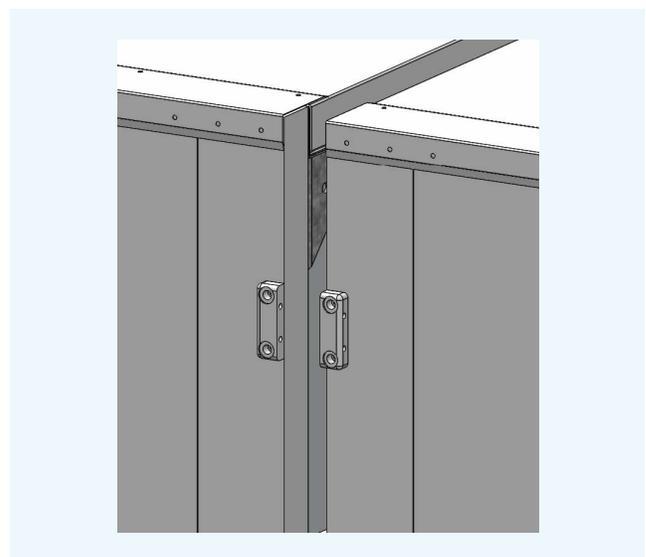
**Ensure wiring has been connected before proceeding with rear connections.**

Instructions are for the highlighted location below. Apply the following steps at all rear splits.



These bolting blocks **are NOT used to pull the modules together**, but only to hold the modules once they have already been pulled together – use clamps or other pulling techniques to bring modules together. Tighten bolts together once the two modules are flush.

Repeat procedure for all rear module splits until unit is fully assembled.



## 6.8 Dampers

For units with OA/EA shut-off dampers, the top damper ships loose but wired with quick connects. The top damper must be attached on site after all modules are connected.

Ensure the damper actuator faces the front of the unit and is centered on the opening.

Dampers are not factory installed to provide access to frame coupling corner brackets during installation. If the dampers are factory-mounted, they may need to be removed and re-attached to allow for coupling of the unit modules

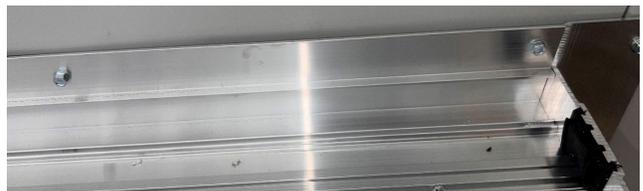
1. Connect electrical quick connector.



2. Looking at the damper from inside the unit, align the damper evenly in the centre of the opening.



3. Using self-tapping screws, fasten the damper flange



4. Attach loose cable.



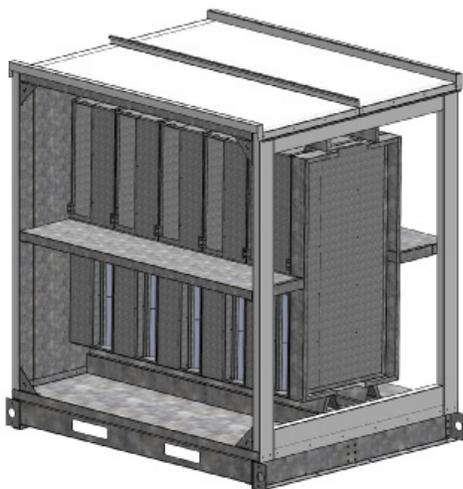
## 6.9 Core Removal

Where the unit is against a wall and rear access is not possible, it may be necessary to remove the front core stack to access the rear brackets.

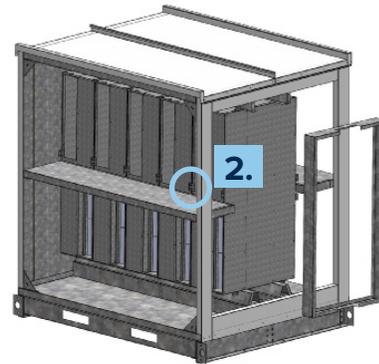
The cores are access through the front door (not shown)

Collar piece (1) will be gasketed and floating between the first core stack (2) and the access door (hidden). Do not remove the gasketing.

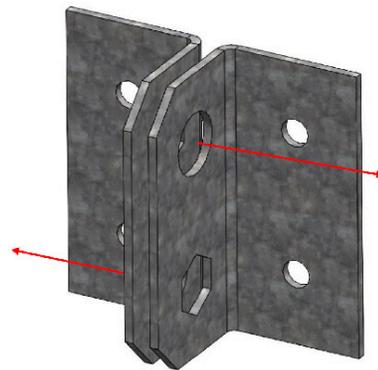
1. Remove the front core spacer
2. Remove bolts from all connecting brackets around first core stack. You will need to remove bolts at connecting brackets for each core stack.
3. Remove core stack
4. May need to slice silicone at these locations.



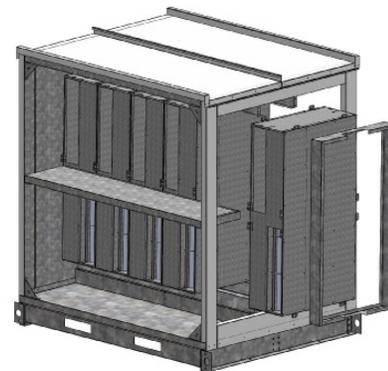
1.



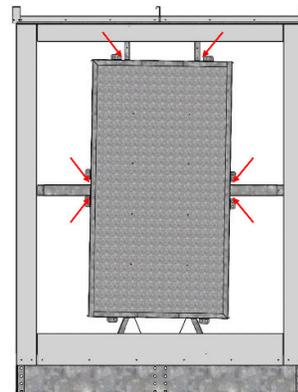
2.



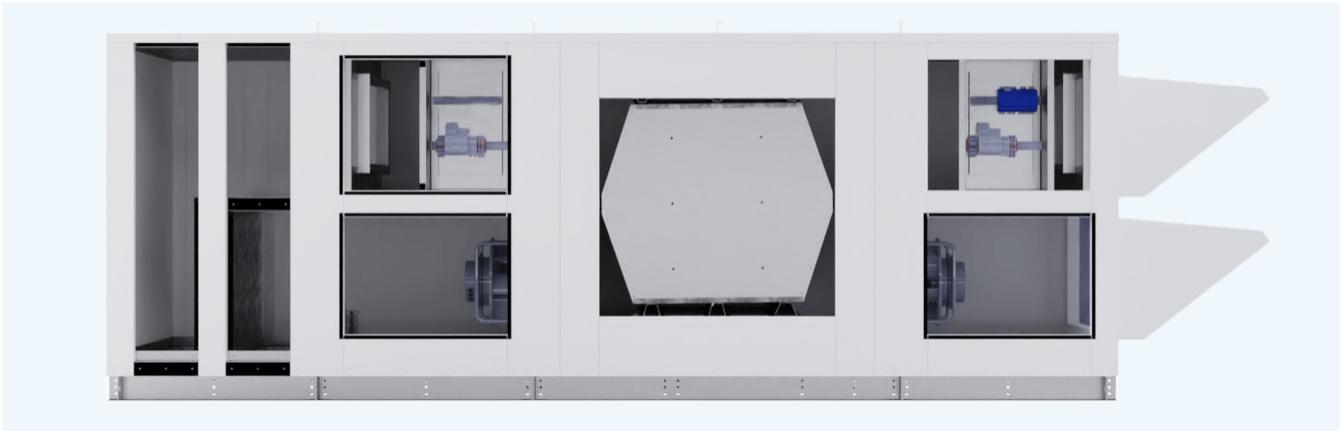
3.



4.



## 7.0 OUTDOOR INSTALLATION



### 7.1 Hood Installation

Motorized shutoff dampers come factory-installed to the unit. For special requests to have the dampers shipped loose, dampers shall be face-mounted over the labeled exhaust air and outdoor air openings. Actuators are accessed through removable access panels built into the hoods.

**Note:** If optional shipped-loose hoods for on-site assembly are required, see the steps below. The same steps would be followed for hoods attached to preheater casing modules.

1. Hoods should come prepared with continuous 1" W x 1/8" T foam gaskets along the length of the mounting flanges. If not, apply it to the hood prior to installation.
2. Align the top hood flange under the roof flange, as shown.
3. Fasten the hood centered over the damper onto the outside of the unit using the roofing screws provided. Screw into the roof flange and top hood flange together as shown below. All pre-cut holes in the hood should be screwed with the provided roofing screws.



Hood Installation (Nova unit shown for illustration purposes)



Sealing of Hoods (Nova unit shown for illustration purposes)

**4.** Apply a thick bead of outdoor-rated caulking around the perimeter flanges of the installed hood to provide a continuous seal. Repeat the same steps for the second damper and hood combination.

**5.** Repeat the same steps for the second damper and hood combination.

**6.** Shutoff dampers can be accessed through a removable panel on the hood.

## 7.2 Actuator Access

If the outdoor or exhaust air shutoff dampers require maintenance, the damper actuators can be accessed through a removable flat panel on the front-facing side of the hood by unscrewing all fasteners.



Shutoff Damper Access (Nova unit shown for illustration purposes)



Shutoff Damper Access (Nova unit shown for illustration purposes)

## 7.3 Roof Installation Options

When considering roof-mounted installations of Ventum+, there are three main recommended options for placement to protect both the unit and the roof. It is up to the engineer to determine the appropriate installation detail for the specific application and the applicable structural, seismic, wind-resistance, and waterproofing requirements. Ensure all installation do not compromise the building envelope.

The following are only illustrations of examples but do not include specific engineered details required for appropriate installation.

### 7.3.1 Roof Curb

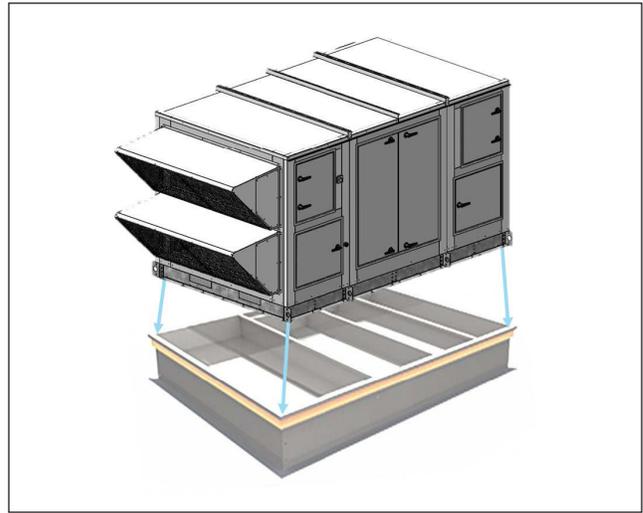
This option is typically required for all downshot (or down discharge) applications, but it can be used for any configuration of Ventum+.

### 7.3.2 Sleepers

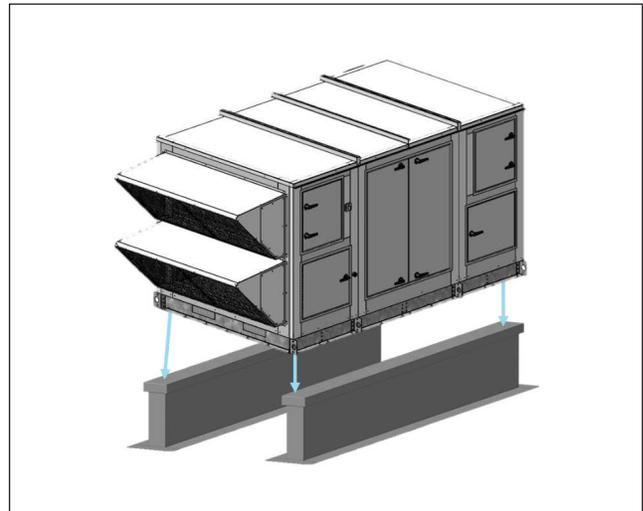
If downshot is not required, a common method is to install roof sleepers, with two sleepers running the full length of the unit: one aligned with the front and one with the back baseframe of Ventum+.

### 7.3.3 Structural Beams

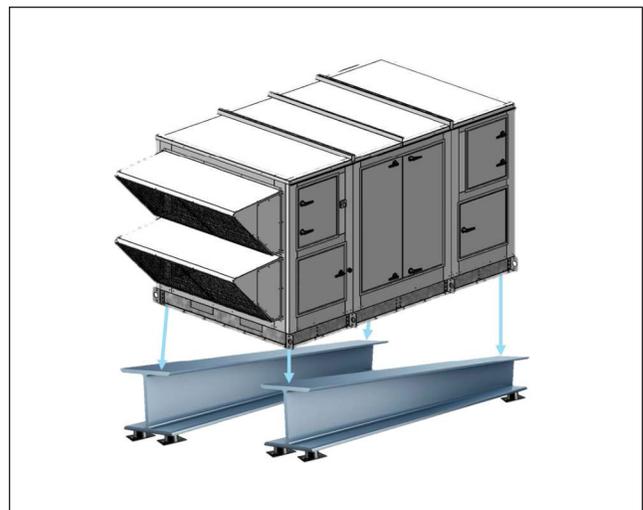
Another option for Ventum+ units, typically without a downshot module, would be to mount directly to a steel beam member.



Roof Curb Option



Sleepers Option

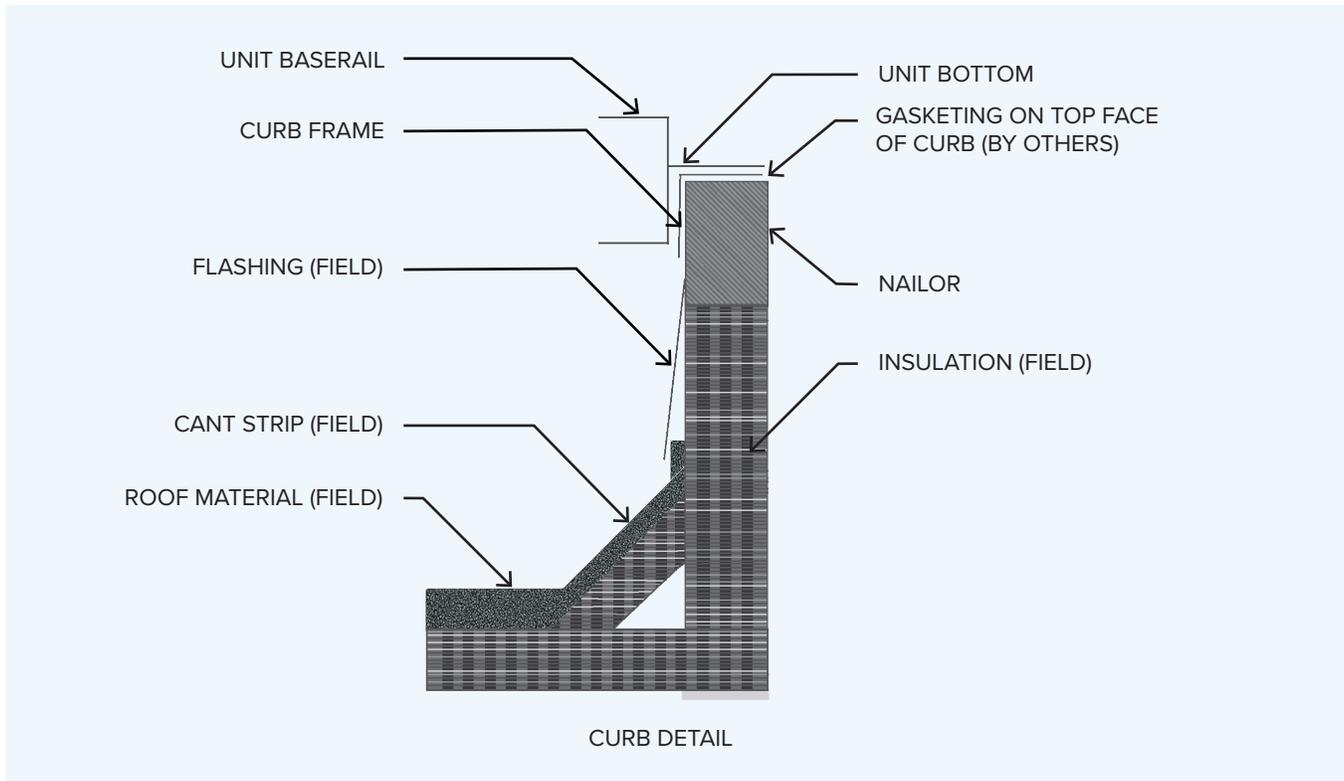


Structural Beams Option

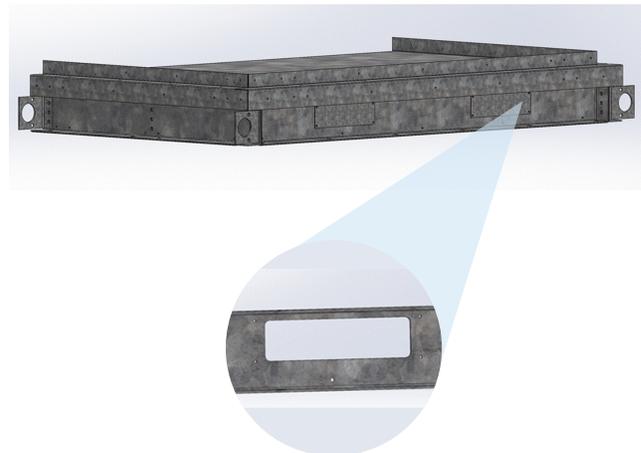
### 7.4 Roof Curb Installation

The Ventum+ unit, complete with base frame (or baserail), is provided by Oxygen8. Curb engineering and construction, including gasketing (optional) between the roof curb and unit baserail, is provided by others.

The detail below depicts example details of how a roof curb assembly would interface with the "UNIT BASERAIL." For curb installation, refer to the specific curb manufacturer installation manual



After all modules are secured in place on the curb, all forklift cutouts must be sealed with the provided plates and tek screws. All required plates and screws will be packaged in a kit and stored inside the supply air fan section of the unit during shipping, unless noted otherwise.



### 7.4.1 Removable Plate Installation for Base Rail

Holes are left so forklifts can lift units. However, they allow air/water leakage as well as air mixing so they must be sealed with provided plates.

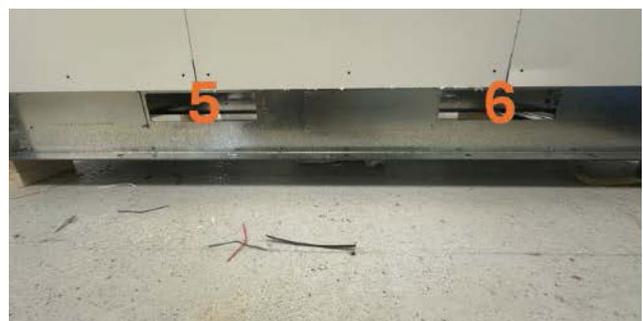
1. Remove the provided plate. Remove screws using ¼" hex socket bit.



2. Reattach the plate using 4x1" Tek screws and ¼" hex socket bit



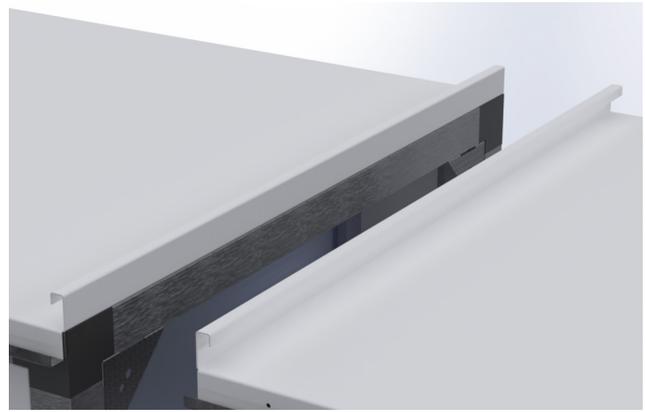
3. Repeat for all 12 plates (x2 end sections)



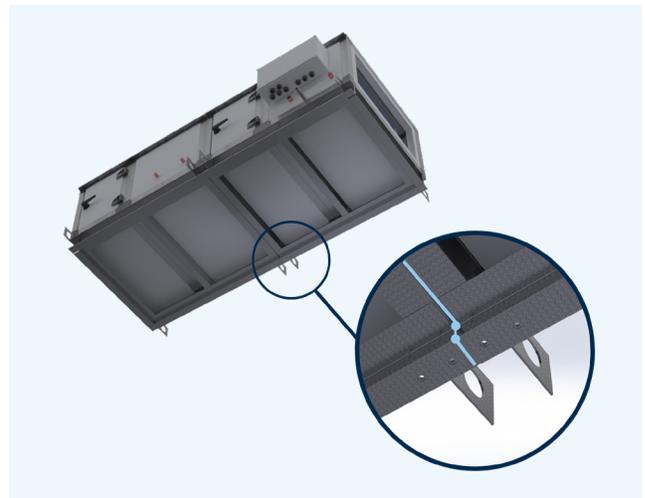
## 7.5 Outdoor Unit Split Connections

For pre-heaters and decoupled combo coils in outdoor applications, the following instructions shall be followed for sealing the split connection.

1. Prior to installing the split roof cap, bolt the split modules together by referring to the general Ventum+ installation instructions
2. Once connected, the roof cap can be placed over the seam, and screwed into the front and back pre-cut holes using the roofing screws provided.
3. After placing the unit on top of the gasket-sealed surface of the roof curb, seal the baseframe seam with outdoor caulk from the outside to create a sealed environment within the roof curb.



Sealing of Roofs





O X Y G E N 8

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