

VALENT DEDICATED OUTDOOR AIR SYSTEMS

DESIGNED FOR 100% OUTDOOR AIR

Valent was one of the first to specialize in high outdoor air units, which have unique design challenges like managing high humidity loads. Valent's DOAS designs are highly configurable to fit almost any project.

OUTDOOR AIR EXPERTS

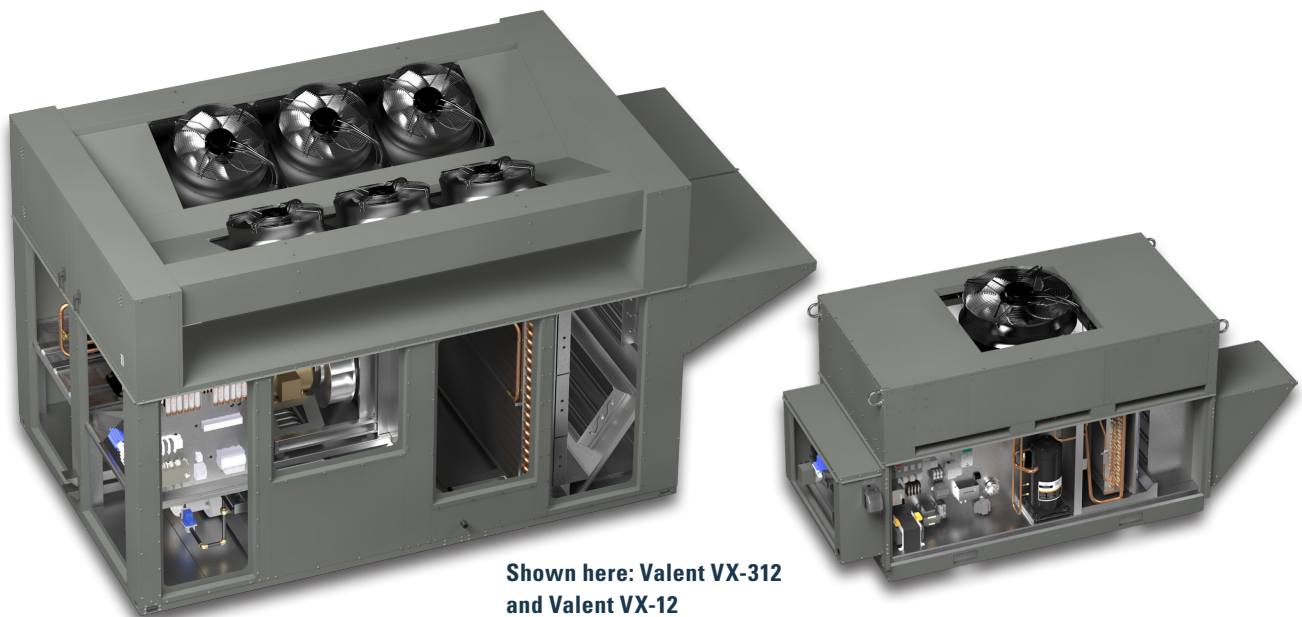
- Valent's years of experience in high outdoor air applications lead to high performing solutions
- Valent's application expertise can be helpful in the design process

ROBUST DESIGNS

- Valent uses quality components to increase unit longevity
- Injected foam casings improve thermal performance
- Pre-painted cabinets reduce environmental wear and tear

DEDICATED SUPPORT

- Valent's commitment to quality reduces the need for post sale support, but we'll help with any issues
- Valent representatives can provide product and selection support in the design process
- End-of-line testing reduces installation time



Shown here: Valent VX-312
and Valent VX-12

VALENT DOAS UNITS AT A GLANCE

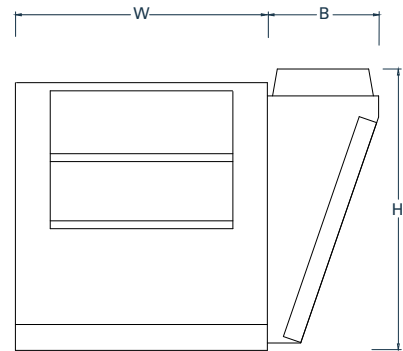
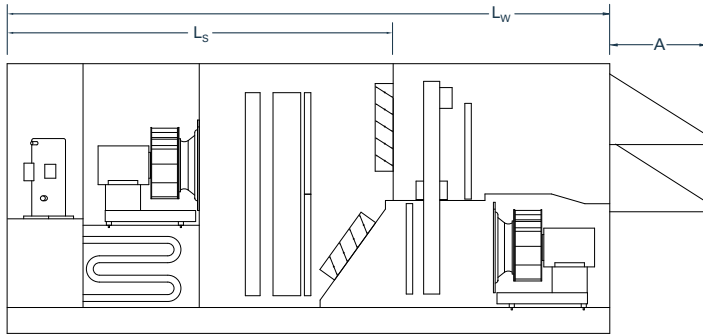
| | | VX, VXE & VXC CASING | | | | |
|----------------------|---------------------------------------|----------------------|------------|------------|-------------------------|------------------|
| | | 12 | 112 | 212 | 312 | 412 |
| AIRFLOW | Minimum ^a (cfm) | 500 | 800 | 2,250 | 3,750 | 8,000 |
| | Maximum ^a (cfm) | 2,500 | 6,500 | 12,500 | 18,000 | 29,200 |
| COOLING TYPE | Packaged, air cooled | Tons | Tons | Tons | Tons | Tons |
| | | 3 | 5 | 15 | 25 | 50 |
| | | 4 | 7 | 17.5 | 30 | 60 |
| | | 5 | 10 | 20 | 40 | 70 |
| | | 6 | 12.5 | 25 | 50 | 80 |
| | | 7 | 15 | 30 | 60 | 90 |
| | | - | - | - | 70 | 100 |
| | | Circuits | Circuits | Circuits | Circuits | Circuits |
| | | 1 | 1 | 1 | 2 | 2 |
| | Chilled water | Option | Option | Option | Option | Option |
| | Air source heat pump | Coming soon | Option | Option | Not available | Not available |
| | No cooling | Option | Option | Option | Option | Option |
| COOLING COMPONENTS | Lead inverter scroll compressor | Standard | Standard | Standard | Standard | Standard |
| | Modulating hot gas reheat | Option | Option | Option | Option | Option |
| | Lead EC modulating condensing fans | Standard | Standard | Standard | Standard | Standard |
| | All EC modulating condensing fans | Standard | Option | Option | Option | Option |
| INDIRECT GAS FURNACE | Minimum (MBh) | 75 | 100 | 300 | 600 | 800 |
| | Maximum (MBh) | 200 | 300 | 600 | 1,200 | 2,000 |
| | Turndown (NG) | Up to 16:1 | Up to 16:1 | Up to 16:1 | Up to 16:1 | Up to 10:1 |
| | Turndown (LP) | Up to 16:1 | Up to 16:1 | Up to 16:1 | Up to 16:1 ^b | Up to 50:1 |
| ELECTRIC HEAT | Minimum ^c (kW) | 5 | 15 | 35 | 40 | 80 ^e |
| | Maximum ^c (kW) | 60 | 60 | 120 | 230 | 230 ^e |
| OTHER HEAT | Air source heat pump | Coming soon | Option | Option | Not available | Not available |
| | Hot water | Option | Option | Option | Option | Option |
| | Steam coil | Not available | Option | Option | Option | Not available |

VALENT DOAS UNITS AT A GLANCE

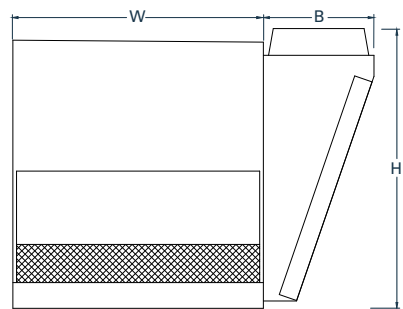
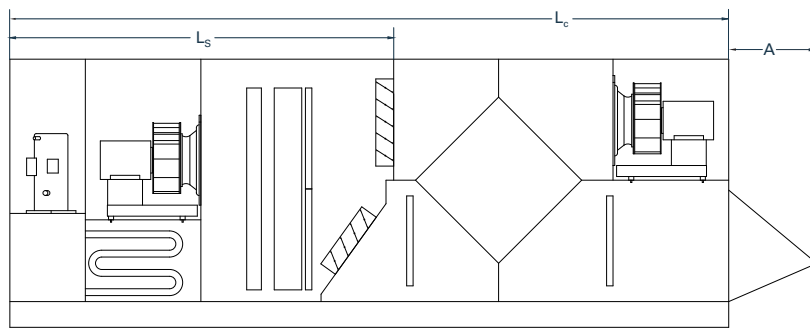
| | | VX, VXE & VXC CASING | | | | |
|--|---------------------------|----------------------|---------------------|---------------------|---------------------|---------------------|
| | | 12 | 112 | 212 | 312 | 412 |
| ENERGY RECOVERY | Full width wheel Polymer | Option | Option | Option | Option | Coming soon |
| | Full width wheel Aluminum | Not available | Option | Option | Option | Coming soon |
| | Enthalpy core Polymer | Not available | Option | Option | Not available | Not available |
| | Enthalpy core Fiber | Not available | Option | Option | Not available | Not available |
| DUCT CONNECTIONS | Bottom supply/return | Standard | Standard | Standard | Standard | Standard |
| | Side supply | Option | Option | Option | Option | Coming soon |
| | Side return | Not available | Option | Option | Option | Coming soon |
| | End return | Option | Option | Option | Option | Coming soon |
| CONTROLS | Full controls | Standard | Standard | Standard | Standard | Standard |
| | Heat-cool only | Option | Option ^d | Option ^d | Option | Option |
| | Web user interface | Standard | Standard | Standard | Standard | Standard |
| AIRFLOW MONITORING | Damper | Option | Option | Option | Option | Option |
| | Fan | Option | Option | Option | Option | Option |
| CONSTRUCTION | Injected foam insulation | 2" double-wall R-16 | 2" double-wall R-16 | 2" double-wall R-16 | 2" double-wall R-16 | 2" double-wall R-16 |
| | Exterior | Gray prepainted | Gray prepainted | Gray prepainted | Gray prepainted | Gray prepainted |
| | Interior | Galvanized | Galvanized | Galvanized | Galvanized | Galvanized |
| CERTIFICATION | AHRI 920 | AHRI Certified | AHRI Certified | AHRI Certified | AHRI Certified | AHRI Certified |
| | AHRI 1060 | Compliant | Compliant | Compliant | Compliant | Compliant |
| | ASHRAE 90.1-2019 | Compliant | Compliant | Compliant | Compliant | Compliant |
| | DOE 2023 | Compliant | Compliant | Compliant | Compliant | Compliant |
| <p>Refer to Valent CAPS® selection software or the Valent Mechanical IOMs for additional detail.</p> <p>a Indicates total supply airflow. Variables such as energy recovery, cooling and heating options, design conditions, external static pressure, and others will affect these values.</p> <p>b LP furnaces available on 600 and 800 mbh furnaces only.</p> <p>c Max kW is dependent on unit voltage.</p> <p>d Not available with the fiber core.</p> <p>e 220 housing Electric Heat offerings will not be in 208 or 230 Voltage, only in 460 and 575V.</p> | | | | | | |

DIMENSIONS AND WEIGHTS

Elevations with and without energy recovery wheel



Elevations with enthalpy core heat exchangers



| | | DIMENSIONS (inches), WEIGHTS (pounds) | | | | | | | | | | | |
|--|--------|---------------------------------------|----------------|--------------------------|--------------------|---------------|------------------|-----|------------------------|-----------------|---------------------|-------|-------|
| | | Height | Width | Length ^a | Length with wheel | | Length with core | | Hood length | Condenser width | Nominal weight | | |
| | | | | | L _W | | L _C | | | | VX | VXE | VXC |
| H | | W | L _S | Bottom return | Side return | Bottom return | Side return | A | B | | | | |
| CASING | VX-12 | 58.1 | 44.0 | 82.2 ^c | 125.0 | N/A | N/A | N/A | 22.3 | N/A | 1,180 | 1,780 | N/A |
| | VX-112 | 59.3 | 52.5 | 98.6 ^a | 149.5 ^a | 180.5 | 180.5 | N/A | 22.1/40.0 ^e | 30.1 | 2,700 | 3,400 | 3,800 |
| | VX-212 | 72.5 | 68.2 | 109.0 ^a | 163.2 ^a | 197.3 | 197.3 | N/A | 27.1/38.0 ^e | 30.1 | 4,500 | 5,100 | 5,675 |
| | VX-312 | 101.3 | 98.0 | 155.2 ^d | 247.9 | 276.9 | N/A | N/A | 39.0 ^b | N/A | 7,750 | 9,600 | N/A |
| | VX-412 | 101.8 | 100.9 | 283.6/249.4 ^f | N/A | N/A | N/A | N/A | 36.25 | N/A | 11,600 ^g | N/A | N/A |
| a Powered exhaust units with no energy recovery, whether bottom or side return, have the same length as the wheel units with bottom return. This applies to the VX-112 and VX-212. b If the VXE-312 has an exhaust fan, the exhaust blower bump-out will have a length of 48.4 inches. c If the VX-12 has an indirect gas furnace, the furnace bump-out will have a length of 13.3 inches. d If the VX-312 has powered exhaust but no energy recovery, the length will be 203.6 inches for bottom return and 222.7 inches for side return. e Longer dimension reflects VXC hood length. f Longer dimension reflects 90-100 ton configurations, shorter dimension reflects 50-80 ton configurations. Units without cooling will have a length of 155 inches. g If the VX-412 is configured without cooling, the nominal weight will be 6,300 pounds. VX-412 50-80 ton configurations will have a nominal weight of 10,325 pounds. | | | | | | | | | | | | | |

