

# VALENT DEDICATED OUTDOOR AIR SYSTEMS

## DESIGNED FOR 100% OUTDOOR AIR

Valent was one of the first to specialize in high outdoor air units, which can be more challenging to design than recirculated air units. Valent's robust designs are highly configurable to fit almost any project.

### OUTDOOR AIR EXPERTS

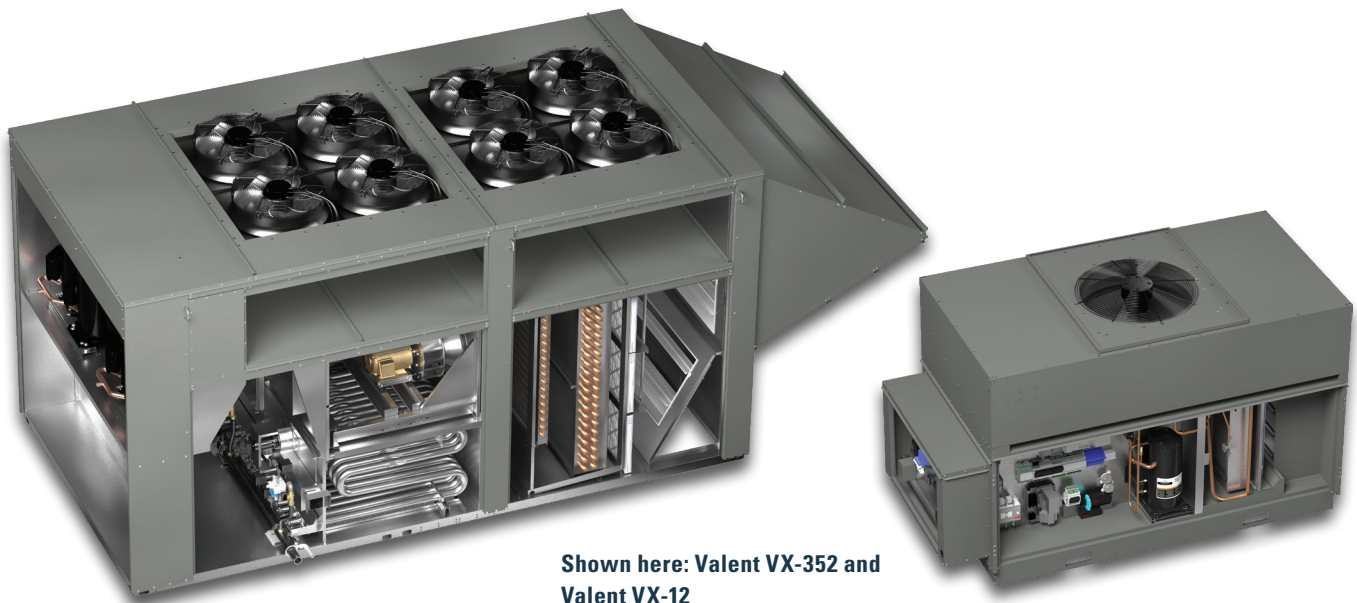
- Valent's years of experience in high outdoor air applications lead to high performing solutions
- Valent's application expertise can be helpful in the design process

### ROBUST DESIGNS

- Valent uses quality components to increase unit longevity
- Foam-injected casings improve thermal performance
- Prepainted 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-352 and  
Valent VX-12

# VALENT UNITS AT A GLANCE

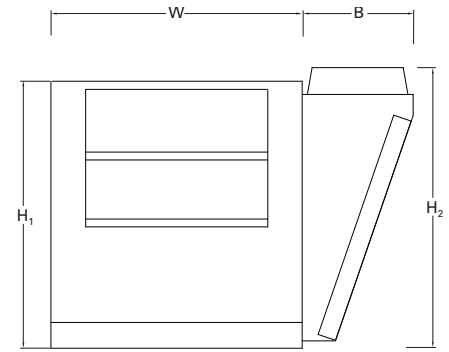
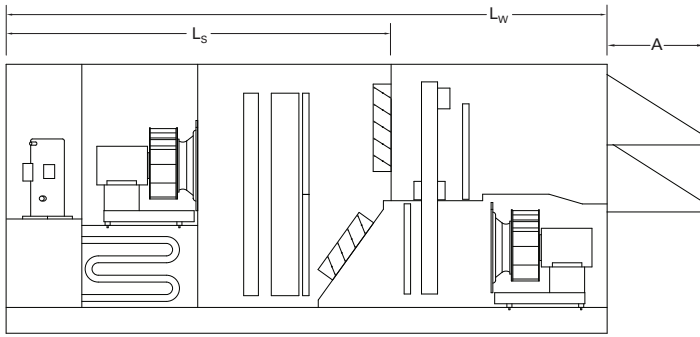
		VX, VXE CASING				
		12	112	212	312	352
AIRFLOW	Minimum <sup>a</sup> (cfm)	500	800	2,250	3,750	3,900
	Maximum <sup>a</sup> (cfm)	2,500	5,750	9,500	16,000	18,000
COOLING TYPE		Tons	Tons	Tons	Tons	Tons
	Packaged, air cooled	3	5	15	25	30
		4	7	17.5	30	40
		5	10	20	40	50
		6	12.5	25	50	60
		7	15	30	—	70
		Circuits	Circuits	Circuits	Circuits	Circuits
		1	1	2	2	2
	Chilled water	Not available	Option	Option	Option	Option
	Air source heat pump	Not available	Option	Option	Not available	Not available
No cooling	Option	Option	Option	Option	Option	
COOLING COMPONENTS	Inverter scroll compressor	Standard	Standard	Standard	Standard	Standard
	Digital scroll compressor	Not available	Not available	Option	Option	Option
	Modulating hot gas reheat	Option	Option	Option	Option	Option
	Lead EC modulating condensing fans	Standard	Standard	Standard	Standard	Standard
	All EC modulating condensing fans <sup>b</sup>	Not applicable	Option	Option	Option	Option
INDIRECT GAS FURNACE	Minimum (MBh)	75	100	300	600	600
	Maximum (MBh)	200	300	500	1,200	1,200
	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	Not available	Up to 6:1
ELECTRIC HEAT	Minimum <sup>c</sup> (kW)	4	15	35	35	50
	Maximum <sup>c</sup> (kW)	60	60	120	230	200

# VALENT UNITS AT A GLANCE

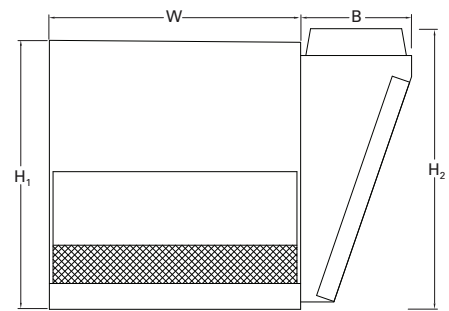
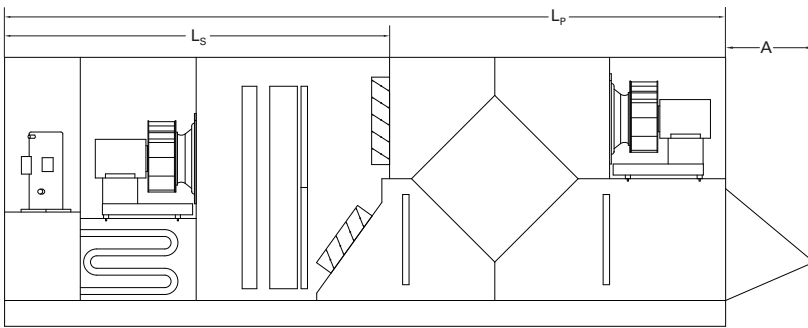
		VX, VXE CASING				
		12	112	212	312	352
OTHER HEAT	<b>Air source heat pump</b>	Not available	Option	Option	Not available	Not available
	<b>Hot water</b>	Not available	Option	Option	Option	Option
	<b>Steam coil</b>	Not available	Option	Option	Option	Option
ENERGY RECOVERY	<b>Full width wheel Polymer</b>	Not available	Option	Option	Option	Option
	<b>Full width wheel Aluminum</b>	Not available	Option	Option	Option	Option
	<b>Enthalpy core</b>	Not available	Coming soon	Coming soon	Not available	Option
CONTROLS	<b>Full controls</b>	Standard	Standard	Standard	Standard	Standard
	<b>Heat-cool only</b>	Option	Option	Option	Option	Option
	<b>Web user interface</b>	Standard	Standard	Standard	Standard	Standard
AIRFLOW MONITORING	<b>Damper</b>	Option	Option	Option	Option	Option
	<b>Fan</b>	Option	Option	Option	Option	Option
CONSTRUCTION	<b>Insulation</b>	2" double-wall R-13	2" double-wall R-13	2" double-wall R-13	2" double-wall R-13	2" double-wall R-13
	<b>Exterior</b>	Gray prepainted	Gray prepainted	Gray prepainted	Gray prepainted	Gray prepainted
	<b>Interior</b>	Galvanized	Galvanized	Galvanized	Galvanized	Galvanized
CERTIFICATION	<b>AHRI 1060</b>	N/A	Compliant	Compliant	Compliant	Compliant
	<b>ASHRAE 90.1-2013</b>	Compliant	Compliant	Compliant	Compliant	Compliant
	<b>DOE AHRI 340/360</b>	Compliant	Compliant	Compliant	Compliant	Compliant
<p>Refer to Valent CAPS® selection software or the Valent Mechanical IOMs for additional detail.</p> <p>a Based on packaged DX cooling, indirect gas heating, 100% outdoor air, 1.5 in. wg supply external and 0.5 in. wg return air static pressure. Airflows will vary based on unit configuration.</p> <p>b All EC condensing fans are not available for 575V unit configurations.</p> <p>c Actual kW minimums and maximums vary by voltage.</p>						

# DIMENSIONS AND WEIGHTS

## Elevations with and without energy recovery wheel



## Elevations with enthalpic flat plate heat exchangers



**DIMENSIONS (inches), WEIGHTS (pounds)**

	Height		Width W	Length <sup>a</sup> L <sub>s</sub>	Length with wheel L <sub>w</sub>		Length with plate L <sub>p</sub>		Hood length A	Condenser width B	Nominal weight	
	H <sub>1</sub>	H <sub>2</sub>			Bottom return	Side return	Bottom return	Side return			VX	VXE
	CASING											
<b>VX-12</b>	53.5	58.1	44.0	82.2 <sup>c</sup>	N/A	N/A	N/A	N/A	22.3	N/A	1,180	N/A
<b>VX-112</b>	60.2	65.9	52.5	98.6 <sup>a</sup>	149.5 <sup>a</sup>	180.5	N/A	N/A	22.1	33.9	2,700	3,400
<b>VX-212</b>	73.1	76.2	68.2	109.0 <sup>a</sup>	163.2 <sup>a</sup>	197.3	N/A	N/A	27.1	30.1	4,500	5,100
<b>VX-312</b>	98.8	101.3	98.0	155.2 <sup>d</sup>	247.9	276.9	N/A	N/A	38.3 <sup>b</sup>	N/A	7,870	8,670
<b>VX-352</b>	96.1	99.5	96.0	185.0	263.0	307.0	308.0	353.0	52.5	N/A	7,950	10,450

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 VX/E-312 has an exhaust fan, the exhaust blower bump-out will have a length of 53.7 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.



OUTDOOR AIR EXPERTS | ROBUST DESIGNS | DEDICATED SUPPORT

valentair.com

Valent DS 033022