

## VALENT DEDICATED OUTDOOR AIR SYSTEMS

### OUTDOOR AIR EXPERTS

Valent was one of the first to specialize in high outdoor air units, which can be more challenging to design than recirculated air units.

### ROBUST DESIGNS

Valent uses quality components and can build in numerous configurations. Casings are sturdy, easy to maintain, have multiple access doors, and are well insulated.

### DEDICATED SUPPORT

Our commitment to quality and extensive end-of-line testing reduce your need to call tech support but, if you do, we'll help with issues before and after the sale.

### SHORT LEAD TIMES

98% on-time shipping and Valent production capacity in four locations mean lead times are short, even in high-demand seasons.

### EASY, EFFICIENT CONTROLS

Preconfigured control sequences, embedded web user interface, seamless interoperability, and on-screen refrigeration detail provide easy and reliable unit control.

### HIGHLY CONFIGURABLE

Valent offers quality components in multiple configurations, including inverter compressors, ultra-quiet condenser fans, and up to 16:1 turndown furnaces.



**Valent offers a wide capacity range:  
3–70 tons cooling and 500–18,000 cfm airflow**  
**Shown here: Valent VX-352 and Valent VX-12**

# VALENT UNITS AT A GLANCE

		VX, VXE CASING					VPR, VPRX, VPRE, VPRP, VPRC CASING <sup>e</sup>			
		12	112	212	312	352	110	210	310	352
AIRFLOW	<b>Minimum<sup>a</sup></b> (cfm)	500	800	2,250	3,750	3,900	645	1,290	3,225	3,900
	<b>Maximum<sup>a</sup></b> (cfm)	2,500	5,750	9,500	16,000	18,000	4,300	8,000	12,100	18,000
COOLING TYPE	<b>Packaged, air cooled</b>	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons
		3	5	15	25	30	5	10	25	30
		4	7.5	17.5	30	40	8	13	30	40
		5	10	20	40	50	10	16	35	50
		6	12.5	25	50	60	—	18	40	60
		7	15	30	—	70	—	20	—	70
		—	—	—	—	—	—	25	—	—
	<b>Split, air cooled<sup>b</sup></b>	Not available	5	15	Not available	Not available	Not available	Not available	Not available	Not available
			7.5	17.5						
			10	20						
			12.5	25						
			15	30						
			—	—						
	<b>Chilled water</b>	Not available	Available	Available	Available	Available	Available	Available	Available	Available
	<b>Water source heat pump</b>	Not available	Not available	Not available	Not available	Not available	5	10	25	30
8							13	30	40	
10							16	35	50	
—							18	40	60	
—							20	—	—	
—	25	—	—							
<b>Air source heat pump</b>	Not available	Available	Available	Not available	Not available	Not available	Not available	Not available	Not available	
<b>No cooling</b>	Option	Option	Option	Option	Option	Option	Option	Option	Option	
COOLING COMPONENTS	<b>Digital Scroll compressor</b>	Not available	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	<b>Inverter scroll compressor<sup>c</sup></b>	Standard	Option	Option	Option	Option	Option	Option	Option	Option
	<b>Modulating hot gas reheat</b>	Option	Option	Option	Option	Option	Option	Option	Option	Option
	<b>Staged AC condensing fans</b>	Not available	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	<b>Modulating EC condensing fans<sup>d</sup></b>	Standard	Option	Option	Option	Option	Option	Option	Option	Option

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		VX, VXE CASING					VPR, VPRX, VPRE, VPRP, VPRC CASING <sup>e</sup>			
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INDIRECT GAS FURNACE	<b>Minimum</b> (MBh)	75	100	300	600	600	100	200	400	600
	<b>Maximum</b> (MBh)	200	300	500	1,200	1,200	200	400	800	1,200
	<b>Turndown</b> (NG)	Up to 16:1	Up to 16:1	Up to 16:1	Up to 16:1	Up to 10:1	Up to 10:1	Up to 10:1	Up to 10:1	Up to 10:1
	<b>Turndown</b> (LP)	Up to 16:1	Up to 16:1	Up to 16:1	Not available	Up to 6:1	Up to 6:1	Up to 6:1	Up to 6:1	Up to 6:1
ELECTRIC HEAT	<b>Minimum</b> (kW)	4	15	35	35	50	10	15	40	50
	<b>Maximum</b> (kW)	60	60	120	230	200	50	125	150	200
OTHER HEAT	<b>Air source heat pump</b>	Not available	Available	Available	Not available	Not available	Not available	Not available	Not available	Not available
	<b>Hot water</b>	Not available	Option	Option	Option	Option	Option	Option	Option	Option
	<b>Temperator</b>	Not available	Option	Option	Option	Not available				
	<b>Steam coil</b>	Not available	Option	Option	Option	Option	Option	Option	Option	Option
ENERGY RECOVERY	<b>Wheel Polymer</b>	Not available	Option	Option	Option	Option	Option	Option	Option	Option
	<b>Wheel Aluminum</b>	Not available	Option	Option	Option	Option	Option	Option	Option	Option
	<b>Enthalpic plate</b>	Not available	Option	Option	Option	Option				
	<b>Flat plate Aluminum</b>	Not available	Option	Option	Option	Option				
CONTROLS	<b>Full controls</b>	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	<b>Heat-cool only</b>	Not available	Option	Option	Option	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					
	<b>Exterior</b>	Gray prepainted	Gray prepainted	Gray prepainted	Gray prepainted					
	<b>Interior</b>	Galvanized	Galvanized	Galvanized	Galvanized	Galvanized	Galvanized	Galvanized	Galvanized	Galvanized
CERTIFICATION	<b>AHRI 1060</b>	N/A	Compliant	Compliant	Compliant	Compliant	Compliant	Compliant	Compliant	Compliant
	<b>ASHRAE 90.1-2013</b>	Compliant	Compliant	Compliant	Compliant	Compliant	Compliant	Compliant	Compliant	Compliant
	<b>DOE AHRI 340/360</b>	Compliant	Compliant	Compliant	Compliant	Compliant	Compliant	Compliant	Compliant	Compliant

Refer to Valent CAPS® selection software or the Valent Mechanical IOMs for additional detail.

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

b Not available on 575 V units with EC condensing fans; not available with air source heat pump or inverter scroll compressors

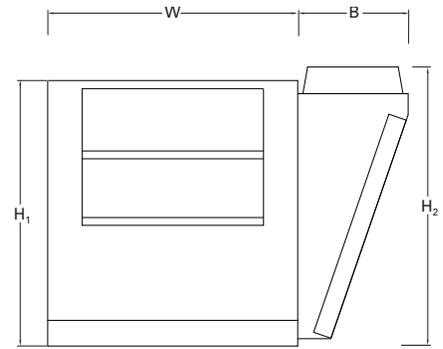
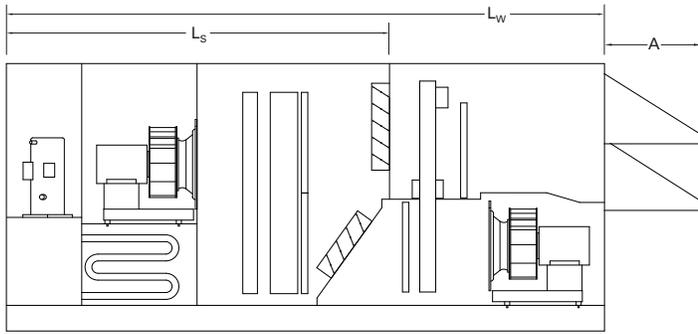
c Not available on 575 V units

d Not available on 575 V VPR/X/E/P/C nor 575 V VX/E-352 units

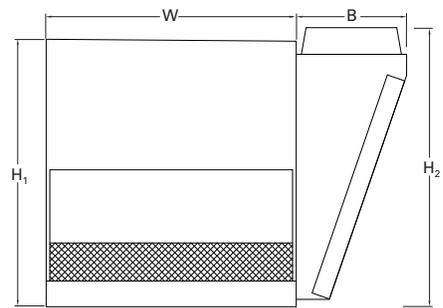
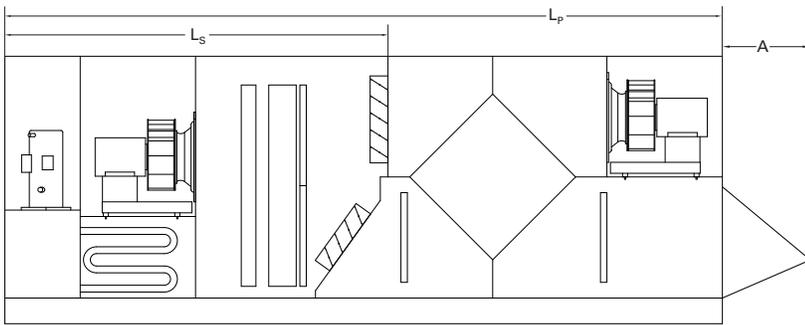
e VPR, VPRX, and VPRE are only available with WSHP cooling and heating.

# DIMENSIONS AND WEIGHTS

## Elevations with and without energy recovery wheel



## Elevations with sensible and enthalpic flat plate heat exchangers



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

	Height	Width	Length <sup>a</sup>	Length with wheel	Length with plate	Hood length	Condenser width	Nominal weight						
								L <sub>w</sub>		L <sub>p</sub>		VX/VPR	VPRE/VXE	VPRC
								H <sub>1</sub>	H <sub>2</sub>	W	L <sub>s</sub>			
<b>CASING</b>	<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	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	N/A
	<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	N/A
	<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	N/A
	<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	N/A
	<b>VPR-110</b>	58.0	55.5	49.0	119.0	158.0	185.0	197.0	224.0	21.5	30.0	1,900	2,700	2,900
	<b>VPR-210</b>	65.0	62.5	61.0	121.0	168.0	195.0	207.0	234.0	23.5	30.0	3,300	4,500	4,700
	<b>VPR-310</b>	85.0	82.5	68.0	131.0	178.0	205.0	242.0	269.0	33.5	30.0	4,500	5,900	6,400
<b>VPR-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	12,050	

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.



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