

## INTRODUCING: VALENT VX

### VALENT'S NEW DEDICATED OUTDOOR AIR UNIT

**Valent VX packaged rooftop units are designed to meet the requirements of dedicated outdoor air applications at a competitive price.**

### THE VALENT ADVANTAGE

#### OUTDOOR AIR EXPERTS

- **All Valent units are designed to meet the challenging load requirements of high-outdoor-air applications** and include refined energy recovery and dehumidification options, tight and well-insulated casing construction, and sophisticated control sequences.
- **Valent has earned its expert status** with thousands of high-outdoor-air installed units.
- **Rely on Valent's specialized expertise** in the design, control, and support of high-outdoor-air units typically used in dedicated outdoor air systems (DOAS).

#### ROBUST DESIGNS

- **Quality components and multiple configurations**, which include inverter or digital scroll compressors, whisper-quiet condenser fans, energy recovery wheels, hot gas reheat, up to 16:1 turndown gas furnaces, hot water heat, chilled water cooling, and multiple duct connections.
- **Reliable operation.** Every Valent unit is energized and tested for 90 minutes before shipping. Dependable controls optimize operation using Valent's standard platform.
- **Sturdy, easy-to-maintain cabinets**, featuring 2" R-13 foam-injected double-wall casings, multiple access doors, space to properly maintain all components, and direct-drive plenum fans.

#### DEDICATED SUPPORT

- **We're there when you need us.** Valent's knowledgeable and available staff will guide you through design, installation, operation, and maintenance.
- **Experienced high-outdoor-air support.** Installing and operating a dedicated outdoor air unit can be more challenging than operating a standard rooftop unit. Valent's support staff has decades of HVAC and dedicated outdoor air experience.



A fresh look at outdoor air.

## VALENT UNITS AT A GLANCE

AIRFLOW	VX, VXE CASING				VPR, VPRX, VPRE, VPRP, VPRC CASING								
	112		212		V10		110		210		310		352
<b>Minimum (cfm)</b>	800		900		550		625		1,250		3,125		3,750
<b>Maximum (cfm)</b>	5,750		9,550		3,000		4,000		8,000		12,000		18,000
COOLING TYPE: NOMINAL TONS, COIL ROWS	<b>Packaged, air cooled</b>	Tons	Rows	Tons	Rows	Tons	Rows	Tons	Rows	Tons	Rows	Tons	Rows
		5	2, 4	15	3, 5	4	3	5	4, 6	10	4, 6	25	4, 6
		7.5	2, 5	17.5	3, 5	5	4	8	4, 6	13	4, 6	30	4, 6
		10	3, 4	20	3, 6	6	4	10	6	16	4, 6	35	4, 6
		12.5	3, 6	25	3, 6	7	4	—	—	18	4, 6	40	6
		15	3, 6	30	3, 6	—	—	—	—	20	4, 6	—	70
	<b>Split, air cooled <sup>a</sup></b>	—	—	—	—	—	—	—	—	25	6	—	—
		Not available		Not available		Not available		5	4, 6	10	4, 6	25	4, 6
								8	4, 6	13	4, 6	30	4, 6
								10	6	16	4, 6	35	4, 6
								—	—	18	4, 6	40	6
								—	—	20	4, 6	—	—
								—	—	25	6	—	—
	<b>Chilled water</b>	—	4, 6	—	4, 6	Not available		—	4, 6	—	4, 6	—	4, 6
COOLING COMPONENTS	<b>Water source heat pump</b>	Not available		Not available		Not available		5	4	10	4	25	4
								8	4	13	4	30	4
								10	4	16	4	35	4
								—	—	18	4	40	4
								—	—	20	4	50	4
								—	—	25	4	60	4
	<b>Air source heat pump</b>	Not available		Not available		Not available		5	4	10	4	Not available	
								8	4	13	4		
								10	4	16	4		
								—	—	18	4		
								—	—	20	4		
								—	—	25	4		
	<b>No cooling</b>	Option		Option		Option		Option		Option		Option	
<b>Digital Scroll™ compressor</b>	Standard		Standard		N/A		Standard		Standard		Standard		
	<b>Inverter scroll compressor <sup>b</sup></b>		Option		Option		Standard		Option		Option		
	<b>Compressor(s) modulation range <sup>c</sup></b>		12-100%		6-100%		21-100%		12-100%		6-100%		
	<b>Modulating hot gas reheat</b>		Option		Option		Option		Option		Option		
	<b>Space between coils</b>		6" with removable cover		6" with removable cover		6" (open for cleaning)		6" (open for cleaning)		6" (open for cleaning)		
	<b>Staged AC condensing fans</b>		Standard		Standard		Not available		Standard		Standard		
	<b>Modulating EC condensing fans <sup>d</sup></b>		EC lead fan option		EC lead fan option		Standard		Option		Option		

## VALENT UNITS AT A GLANCE

	VX, VXE CASING		VPR, VPRX, VPRE, VPRP, VPRC CASING					
	112	212	V10	110	210	310	352	
INDIRECT GAS FURNACE	<b>Minimum</b> (MBh)	100	300	75	100	200	400	600
	<b>Maximum</b> (MBh)	300	500	200	200	400	800	1,200
	<b>Turndown</b> (NG)	Up to 16:1	Up to 16:1	Up to 10:1				
	<b>Turndown</b> (LP)	Up to 16:1	Up to 16:1	Up to 6:1				
ELECTRIC HEAT	<b>Minimum</b> (kW)	15	35	Not available	10	15	40	50
	<b>Maximum</b> (kW)	60	120	Not available	50	125	150	200
	<b>SCR modulation</b>	Standard	Standard	Not available	Standard	Standard	Standard	Standard
OTHER HEAT	<b>Hot water</b>	Option	Option	Not available	Option	Option	Option	Option
	<b>Temperator</b>	Not available	Not available	Not available	Option	Option	Option	Not available
	<b>Steam coil</b>	Not available	Not available	Not available	Option	Option	Option	Option
ENERGY RECOVERY	<b>Enthalpy wheel</b> Polymer, silica gel desiccant	Option, bypass available	Option, bypass available	Not available	Option	Option	Option	Option
	<b>Enthalpy wheel</b> Aluminum, molecular sieve desiccant	Not available	Not available	Not available	Option	Option	Option	Option
	<b>Enthalpic core</b>	Not available	Not available	Not available	Option, bypass available	Option, bypass available	Option, bypass available	Option, bypass available
	<b>Flat plate</b> Aluminum	Not available	Not available	Not available	Option, bypass available	Option, bypass available	Option, bypass available	Option, bypass available
CONTROLS	<b>Full controls</b> Carel platform	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	<b>Controls Lite</b> Carel platform	Not available	Not available	Not available	Option	Option	Option	Option
	<b>No controls</b> <sup>e</sup>	Option	Option	Not available	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	2" double-wall R-13	2" double-wall R-13
	<b>Exterior</b>	Gray prepainted, sloped roof	Gray prepainted, sloped roof	Gray prepainted, sloped roof	Gray prepainted, sloped roof	Gray prepainted, sloped roof	Gray prepainted, sloped roof	Gray prepainted, sloped roof
	<b>Interior</b>	Galvanized	Galvanized	Galvanized or stainless steel				
CERT.	<b>AHRI 1060</b>	Certified <sup>f</sup>	Certified <sup>f</sup>	Not available	Certified <sup>g</sup>	Certified <sup>g</sup>	Certified <sup>g</sup>	Certified <sup>g</sup>
	<b>ASHRAE 90.1-2013</b>	Compliant	Compliant	Compliant	Compliant	Compliant	Compliant	Compliant
DUCT	<b>Supply</b>	Bottom or side						
	<b>Return</b>	Bottom or side						
POWER	<b>Voltage, phase, frequency</b>	208, 230, 460, or 575 V, 3-phase, 60 Hz input, single-point power, phase and voltage monitoring See restrictions noted above and in the notes below for 575 V with EC motors.						

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

a Not available on 575 V units with EC condensing fans

b Not available on 575 V VPR/X/E/P/C units

c Modulation range based on Digital Scroll™ compressor(s). Inverter scroll modulation range may differ.

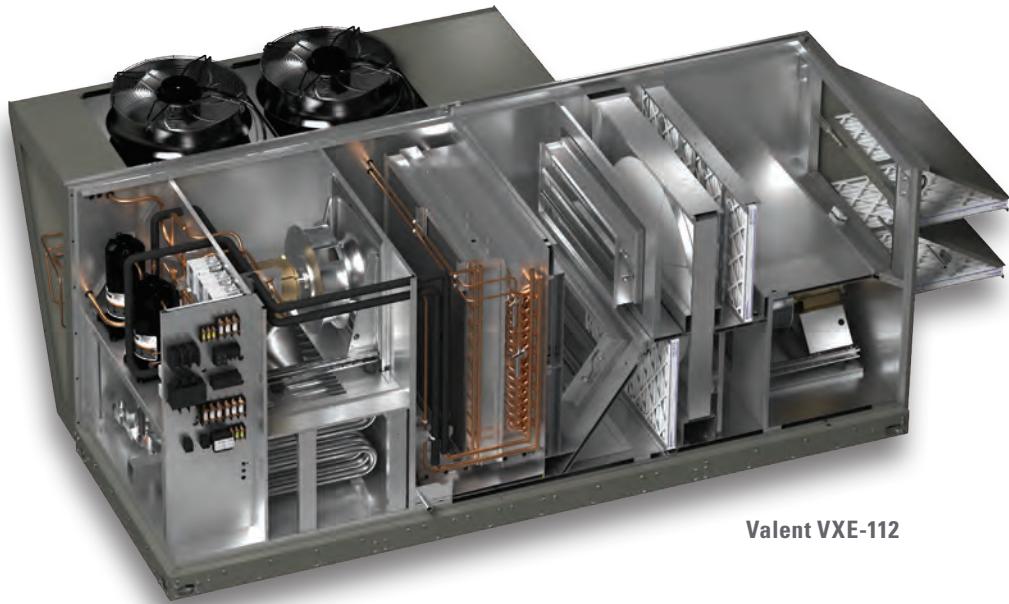
d Not available on 575 V VPR/X/E/P/C units

e Chilled water only

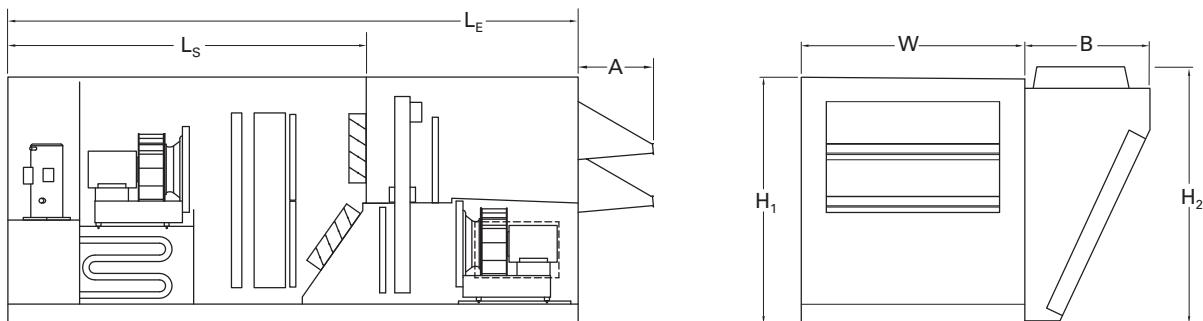
f AHRI 1060-certified when equipped with enthalpy wheel

g AHRI 1060-certified when equipped with enthalpy wheel or enthalpic core heat exchanger

## DIMENSIONS AND WEIGHTS



### Elevations



#### DIMENSIONS (inches), WEIGHTS (pounds)

	Height		Width	VX length	VXE length	Hood length	Condenser width	Nominal weight
	H <sub>1</sub>	H <sub>2</sub>	W	L <sub>S</sub>	L <sub>E</sub>	A	B	VX/VXE
<b>CASING</b>	<b>112</b>	60.2	65.9	52.5	98.6	149.5	22.1	33.9
	<b>212</b>	73.1	76.2	68.2	109.0	163.2	27.1	4500/5100



**OUTDOOR AIR EXPERTS  
ROBUST DESIGNS  
DEDICATED SUPPORT**

[valentair.com](http://valentair.com)

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