

# VALENT ROOFTOP UNITS

## ELEVATED CAPABILITIES AND PERFORMANCE

Valent VR rooftop units meet today’s design challenges for higher efficiency and improved indoor air quality with a revolutionary approach to temperature and humidity control. Standard features such as inverter scroll compressors and modulating indirect gas furnaces ensure efficient operation while delivering consistently comfortable, dehumidified air.

### OUTDOOR AIR EXPERTISE

- The Valent VR builds on our years of outdoor air expertise, designed specifically for mixed air applications
- Valent products are designed to work seamlessly together to support project needs

### ROBUST DESIGNS, AFFORDABLE QUALITY

- Affordable quality and high-value features you expect from Valent
- Valent VR rooftop units are engineered to meet dehumidification needs and occupant expectations

AIRFLOW	COOLING	HEATING	EFFICIENCY	CONSTRUCTION
<ul style="list-style-type: none"> <li>▪ 500–13,000 cfm</li> <li>▪ Mixed air applications</li> </ul>	<ul style="list-style-type: none"> <li>▪ 3–30 tons</li> <li>▪ Packaged DX or air-source heat pump</li> </ul>	<ul style="list-style-type: none"> <li>▪ 50–600 MBh</li> <li>▪ Indirect gas, electric, air-source heat pump</li> </ul>	<ul style="list-style-type: none"> <li>▪ Lead inverter compressors</li> <li>▪ EC condenser fans</li> <li>▪ Direct-drive fans</li> </ul>	<ul style="list-style-type: none"> <li>▪ Fully insulated, including base</li> <li>▪ Injected foam</li> <li>▪ Prepainted exterior</li> </ul>



Shown here: VR-200 and VR-400

# VALENT ROOFTOP UNITS AT A GLANCE

		VR CASING			
		100	200	300	400
AIRFLOW	Minimum <sup>a</sup> (cfm)	500	1,200	2,000	3,500
	Maximum <sup>a</sup> (cfm)	2,000	5,000	7,900	13,000
COOLING TYPE	Packaged direct expansion (DX)	Tons	Tons	Tons	Tons
		3	6.5	10	17.5
		4	7	12.5	20
		5	8.5	15	25
			10	17.5	30
	Compressor type and quantity				
	Inverter scroll (1)	Inverter scroll (1)	10-15 tons: Inverter scroll (1) 17.5 tons: Inverter scroll (1) & Fixed (1)	17.5 tons: Inverter scroll (1) 20-30 tons: Inverter scroll (1) & Fixed (1)	
Air-source heat pump	Coming soon	Option	Option	Option	
EFFICIENCY	EER	Not applicable	Up to 12.3	Up to 12.4	Up to 11.9
	IEER	Not applicable	Up to 21.8	Up to 21.7	Up to 23.1
COOLING COMPONENTS	Lead inverter scroll compressor	Standard	Standard	Standard	Standard
	Modulating hot gas reheat	Option (Packaged DX)	Option (Packaged DX) Standard (ASHP)	Option (Packaged DX) Standard (ASHP)	Option (Packaged DX) Standard (ASHP)
	All EC modulating condensing fans	Standard	Standard	Standard	Standard
INDIRECT GAS FURNACE	Minimum (MBh)	75	100	200	250
	Maximum (MBh)	175	300	400	600
	Turndown (NG or LP)	10:1	10:1	10:1	10:1
ELECTRIC AND OTHER HEAT	Minimum <sup>b</sup> (kW)	Coming soon	25	30	60
	Maximum <sup>b</sup> (kW)	Coming soon	60	90	80 (208/230V) 140 (460V)
	Air-source heat pump	Coming soon	Option	Option	Option
	No heating	Option	Option	Option	Option

# VALENT ROOFTOP UNITS AT A GLANCE

		VR CASING			
		100	200	300	400
CONTROLS	Full controls	Standard	Standard	Standard	Standard
	Web user interface	Standard	Standard	Standard	Standard
CONSTRUCTION	Injected foam insulation	1" Walls, 2" Roof and Base Double Wall Panels	1" Walls, 2" Roof and Base Double Wall Panels	1" Walls, 2" Roof and Base Double Wall Panels	1" Walls, 2" Roof and Base Double Wall Panels
	Exterior	Permatector™ prepainted, 2,500-hour salt spray rated	Permatector™ prepainted, 2,500-hour salt spray rated	Permatector™ prepainted, 2,500-hour salt spray rated	Permatector™ prepainted, 2,500-hour salt spray rated
	Interior	Galvanized	Galvanized	Galvanized	Galvanized
	Supply/return position	Bottom	Bottom	Bottom	Bottom
FILTRATION	2" MERV 8	Standard	Standard	Standard	Standard
	2" MERV 13	Option	Option	Option	Option
	2" MERV 8 + 2" MERV 13	Option	Option	Option	Option
Refer to Valent CAPS® selection software or the Valent Mechanical IOMs for additional detail. a Airflows will vary based on unit configuration. b Max kW is dependent on unit voltage. Values represented are based on 460V configurations.					

## ROOFTOP UNIT ACCESSORIES

### STANDARD

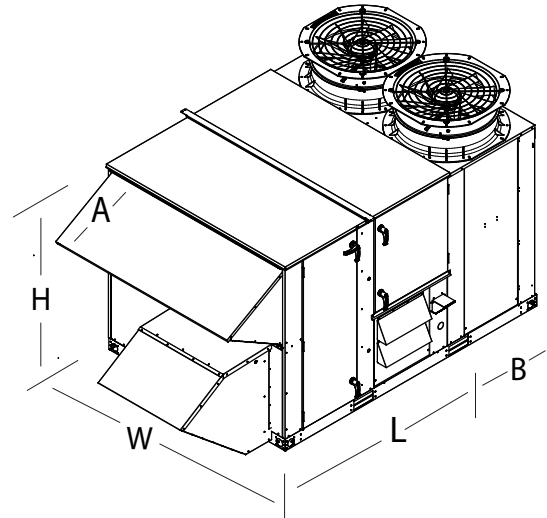
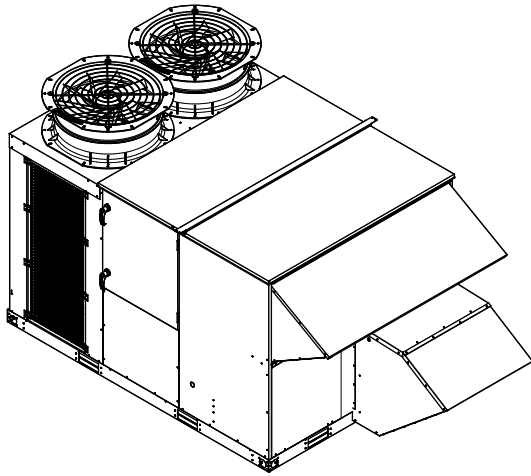
- Outdoor air damper
- Recirculation air damper
- 5kA SCCR
- Hail guard
- Disconnect
- Hinged access doors

### OPTIONAL

- Powered exhaust
- Barometric relief damper
- 65kA SCCR
- Motor shaft grounding
- Condensate overflow switch
- Economizer fault detection
- Dirty filter switch
- Smoke detectors
- Space thermostat
- Temperature sensors
- Airflow monitoring
- Coil coating
- Curb
- Factory-mounted and wired service outlet
- Factory-mounted and field wired field service outlet
- Spare filters

# DIMENSIONS AND WEIGHTS

## Rooftop Unit Drawings



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

		Nominal Tonnage (tons)	Height (H)	Width (W)	Length (L)	Intake (A)	Condensing Section (B)	Nominal Weight (lbs)	Outdoor Intake	Supply Discharge	Return Intake	Exhaust Discharge
<b>CASING</b>	VR-100	3-5	45.8	40	56	13.12 <sup>2,4</sup>	34.2	1,100	End	Bottom	Bottom	End <sup>1,2</sup>
	VR-200	6.5-10	49	59.5	62.2	13.12 <sup>2,4</sup> / 31.8 <sup>1,3</sup>	36.1	1,900				
	VR-300	10-17.5	74.6	69.5	64.1	22 <sup>2,4</sup> / 35.9 <sup>1,3</sup>	35	2,400				
	VR-400	17.5-30	76.5	83.4	83.6	28 <sup>2,4</sup> / 35.9 <sup>1,3</sup>	45.9	3,700				
1 Only available with powered exhaust 2 Only available without barometric relief 3 Only available with barometric relief 4 Only available without powered exhaust							All dimensions are shown in inches. Weight is shown in pounds and includes largest supply and exhaust fans, PDX with reheat, largest indirect gas-fired furnace, and all dampers. Actual weights will vary based on the unit configuration.					

