

# THE VALUE OF VALENT

## ROBUST DESIGNS, AFFORDABLE QUALITY

Valent designs and manufactures dedicated outdoor air handling units that require robust cabinets and components to effectively condition up to 100% outdoor air—on the coldest winter day or the most humid summer day.

Efficient manufacturing allows Valent to provide affordable products while raising the bar on quality.

**Valent's goal is to provide customers with affordable quality.**

## OUTDOOR AIR EXPERTISE BUILT INTO EVERY PRODUCT

Valent's fully integrated and interoperable controls ensure reliable and efficient performance. We've applied our years of applications knowledge to create flexible control sequences proven across thousands of high outdoor air installations.

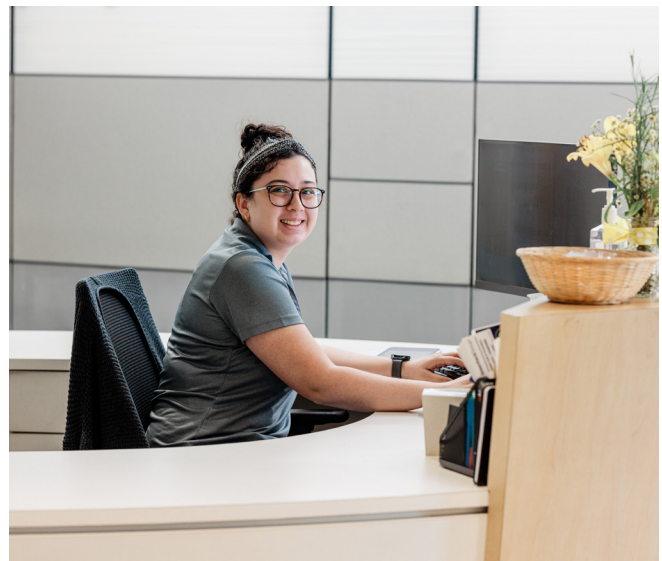
Valent's energy recovery portfolio is diverse to meet most project requirements. We understand application subtleties, like boosting efficiency with energy wheels that modulate to address changing outdoor conditions, or enthalpic plate heat exchangers that recover sensible and latent energy with no moving parts.

**Controls and energy recovery expertise are key to optimal DOAS performance.**

## DEDICATED SUPPORT

We work with experienced reps and their talented sales engineers across North America. Our reps partner with Valent sales and support engineers to add value during design, installation, and operation phases.

**Before and after the sale, we're there when you need us.**



# VALENT DOAS PRODUCTS

## CONDITION UP TO 100% OUTDOOR AIR

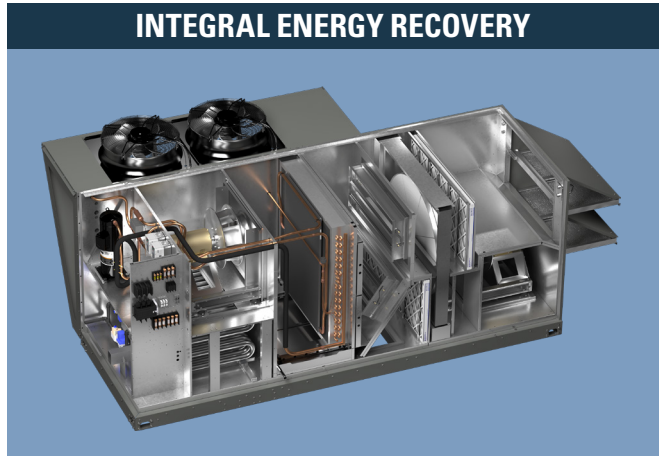
All Valent DOAS units are designed to cool, heat, and dehumidify a wide range of entering air loads, up to 100% outdoor air.

Valent DOAS units can be configured with or without integral energy recovery. See the tables in this brochure for capacities. See the **Valent DOAS Datasheet** for product specifications by model.

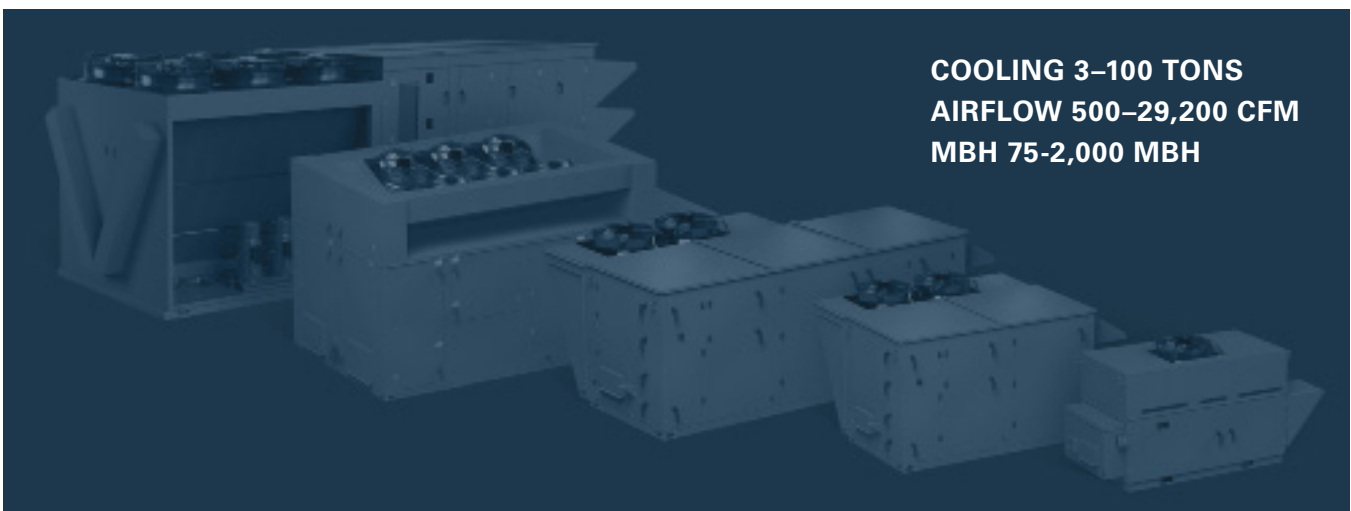
### DOAS ROOFTOPS



### INTEGRAL ENERGY RECOVERY



## WIDE RANGE OF CONFIGURATIONS



# RELY ON VALENT

## PREDICTABLE PERFORMANCE

### EVERY UNIT FACTORY-TESTED

A full factory run test ensures operation at start-up. Compressors and mechanical component operation are verified and VFD drives are factory-programmed.

**Factory testing ensures operation at start-up.**

### EASY, EFFICIENT CONTROLS

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

**Pre-configured controls shorten start-up time.**

### AHRI® CERTIFIED

Valent VX, VXE, and VXC units with packaged cooling or ASHP are tested and certified by AHRI to AHRI Standard 920. To find AHRI Certified products, go to [ahridirectory.org](http://ahridirectory.org).

**Rigorous and continuous third-party testing.**

## EASY INSTALLATION

### ON-TIME SHIPPING

It is critical for the project schedule that your HVAC units arrive when you need them. On average, Valent ships 98% of units on or before the promised ship date.

**Delivery you can count on.**

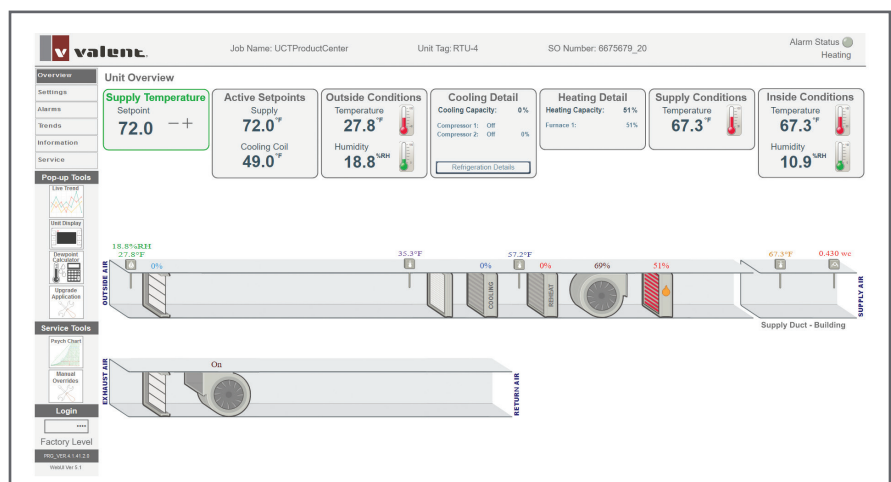
### SIMPLE START-UPS

It doesn't get much easier than our three-step installation:

- 1. Inspect.** Check curb, utility connections, sensors.
- 2. Enable** the unit from the keypad.
- 3. Adjust** set points, gas pressure, tune cooling.



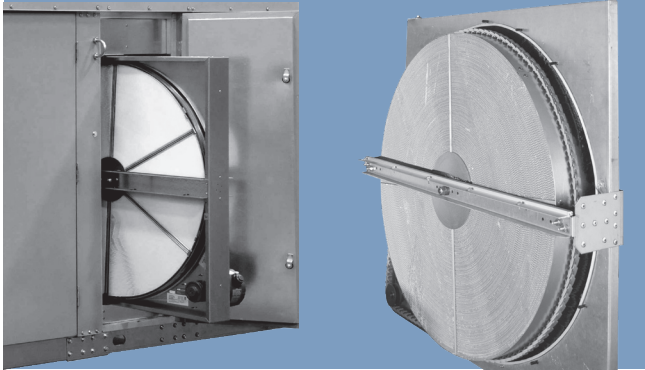
**Save time with Valent's Web UI, standard on all units.** View or modify multiple data points on each intuitively-organized web page, which is much faster than scrolling through handheld keypad screens.



# VALENT DOAS OPTIONS

## ENERGY RECOVERY OPTIONS

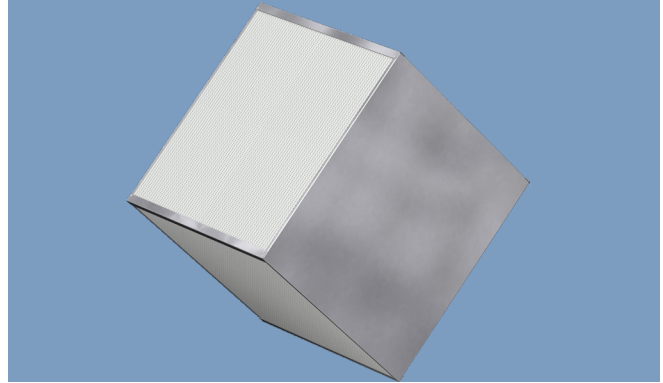
### FULL WIDTH ENTHALPY WHEELS



- Latent and sensible recovery
- Most efficient; slides out for serviceability
- AHRI 1060 certified

Valent's rotating enthalpy wheels recover up to 70% of return air energy and slide out for easy access. Two enthalpy wheel types are available: a lightweight polymer wheel with silica gel desiccant, and an aluminum wheel with molecular sieve media.

### ENTHALPY CORE



- Latent and sensible recovery
- No moving parts; lowest leakage rate
- AHRI 1060 certified

Valent's enthalpy core heat exchangers have minimal maintenance requirements and an exhaust air transfer ratio (EATR) of less than 1%. The core is available in a polymer or fiber material. The polymer core can safely handle accumulated condensate without sustaining frost damage and is water washable.

## COOLING, HEATING, CONSTRUCTION OPTIONS

### COOLING CAPACITY

- 3–100 tons

### COOLING OPTIONS

- Packaged direct expansion (DX)
- Air source heat pump
- Chilled water
- Lead inverter scroll compressor
- Modulating hot gas reheat
- Modulating EC condenser fans

### AIRFLOW CAPACITY

- 500–29,200 cfm

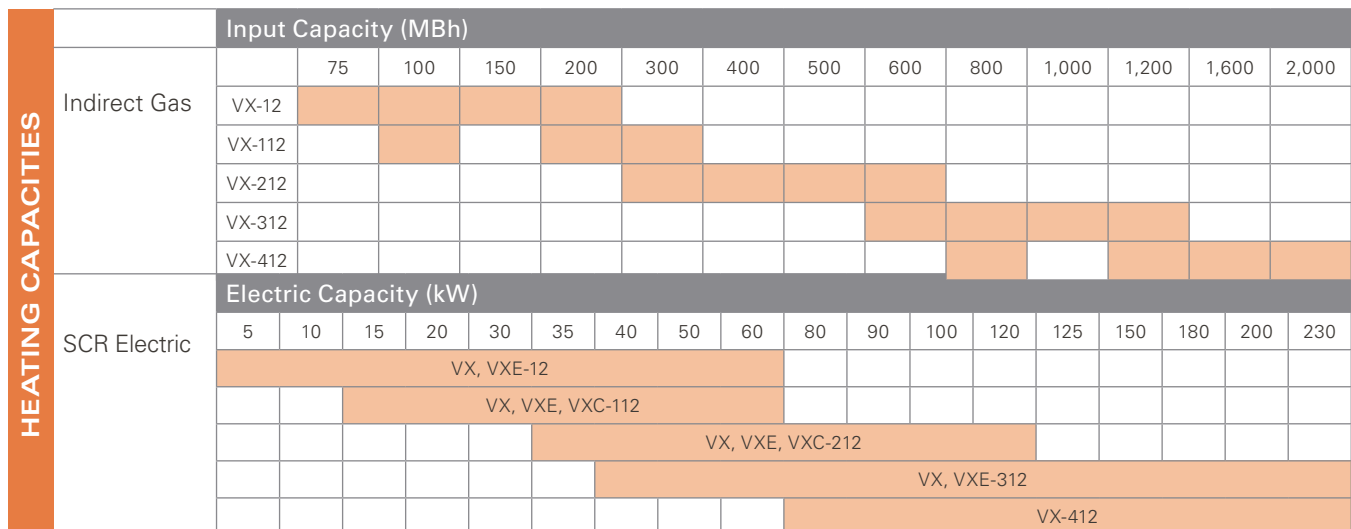
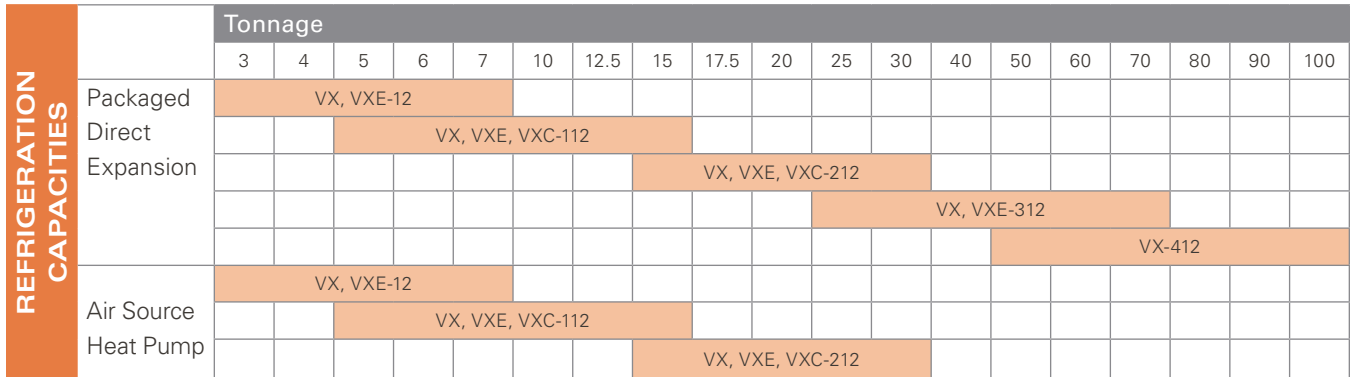
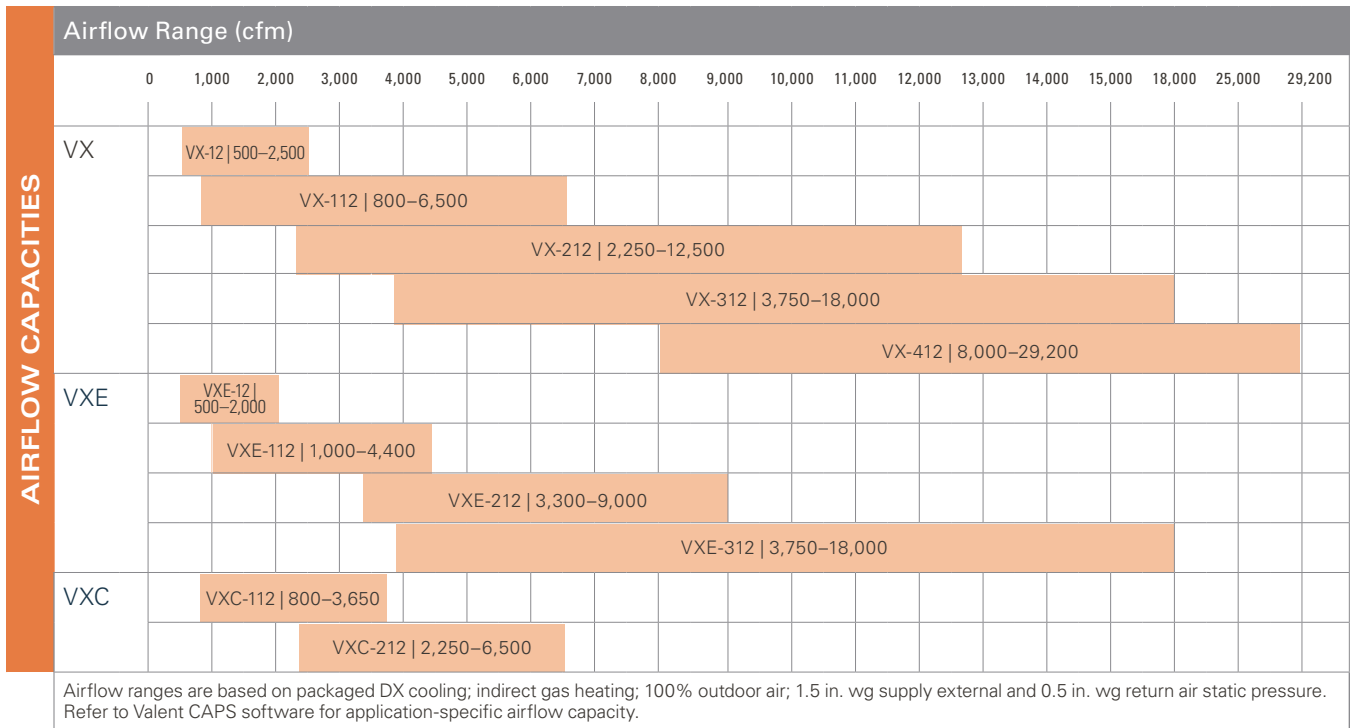
### HEATING OPTIONS

- Indirect gas 75–2,000 MBh
- Up to 50:1 turndown furnaces
- Electric 5–230 kW
- Hot water coil
- Steam coil

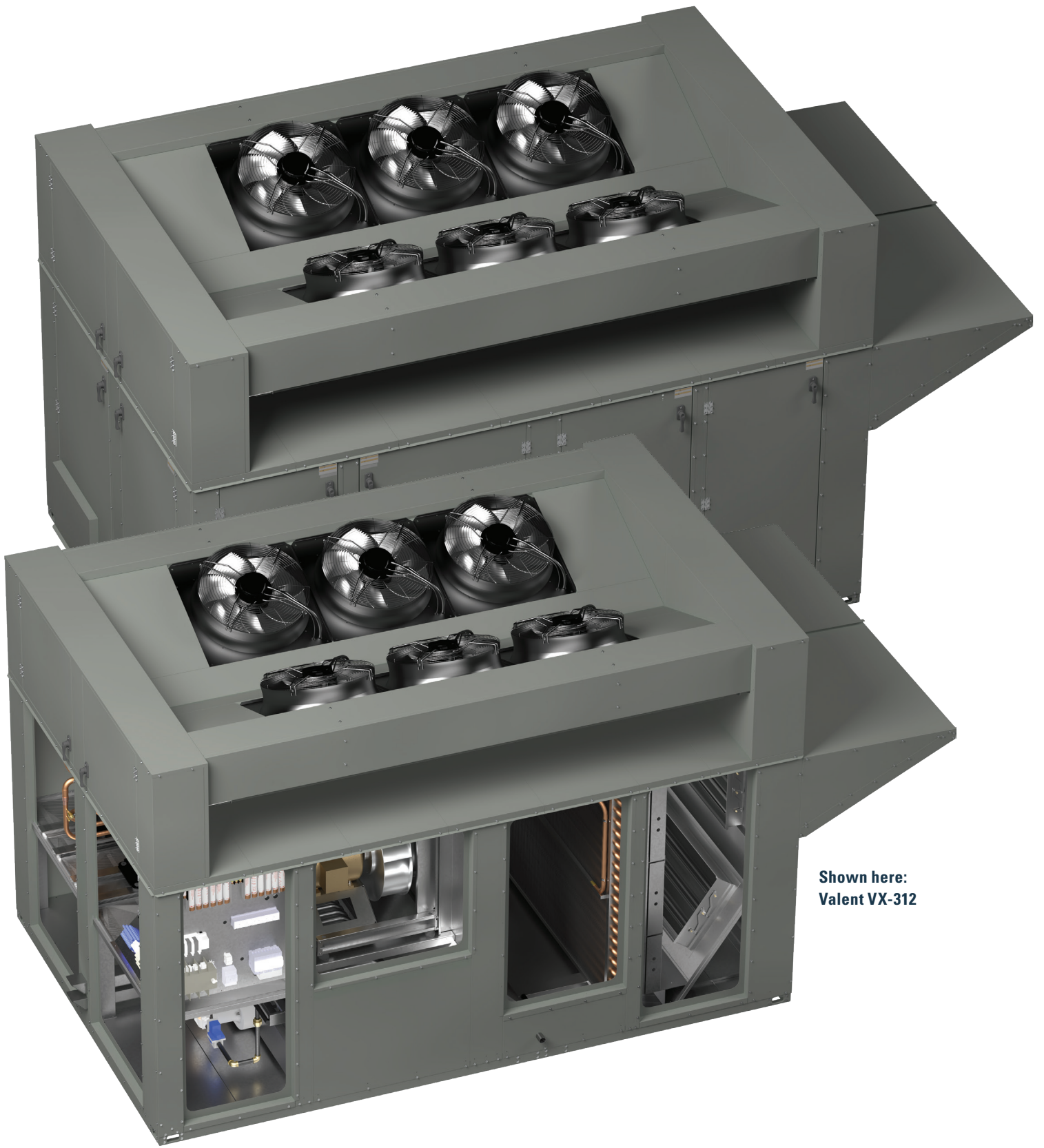
### CONSTRUCTION

- 2" R-16 injected foam insulated panels, base, doors, and roof
- Multiple access doors with rugged handles
- Pre-painted casing with 2,500-hour salt spray rating
- Galvanized interior
- Multiple duct connection options

# PRODUCT DATA



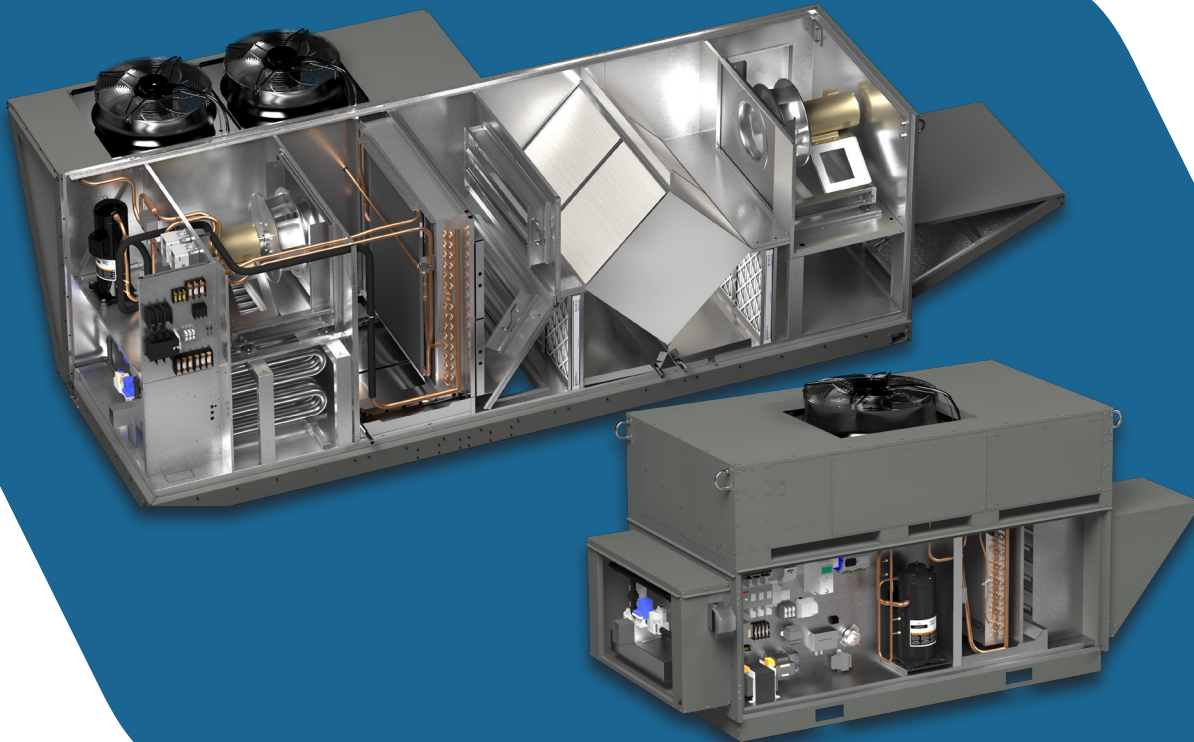
Electric heat sizes shown are for 460V unit.



**Shown here:  
Valent VX-312**

VALENT OFFERS A WIDE CAPACITY RANGE

3-100 TONS COOLING, 500-29,200 CFM AIRFLOW



## LEARN MORE

- Visit our website at [valentair.com](http://valentair.com).
- Download our **Valent DOAS Datasheet** for detailed specifications by model.
- Find a **Valent Representative**.

