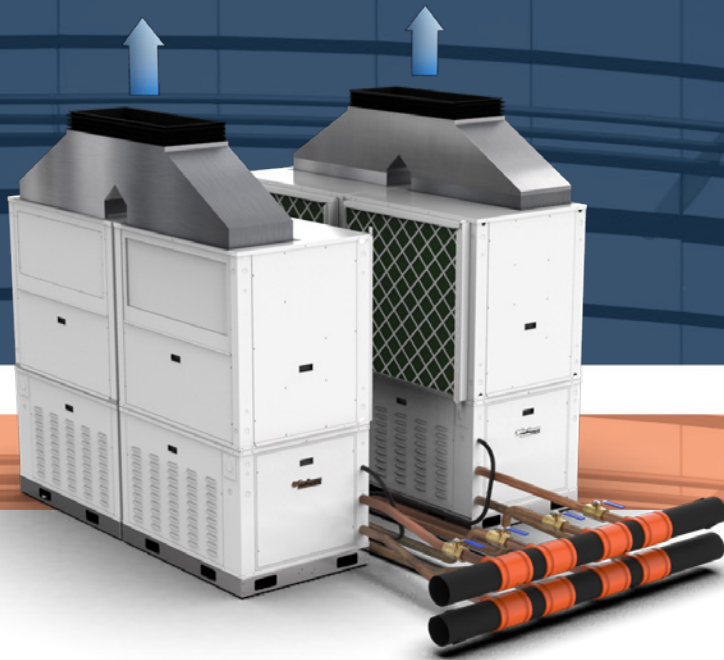




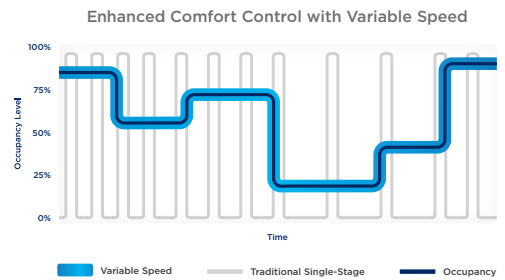
Versatec Variable Speed Commercial / 2-90 Ton Water Source/Ground Source Heat Pump



Versatec[®] VS VARIABLE SPEED

The Optimal Solution for a Changing World

The workplace is evolving. Spaces that used to be at full-capacity are now much less dense, with some employees working from home or alternating shifts. Traditional HVAC systems have trouble accommodating these types of load variations created by staffing changes. But Versatec Variable Speed units are designed for such situations. They continually adjust to deliver the air flow and temperature desired, depending on occupancy. That means environments can be cooled down or warmed up faster than if the unit just operated at one speed. It also results in much greater efficiency. Versatec Variable Speed units are available in a variety of configurations and sizes to achieve capacities between 2-90 tons.



KEY FEATURES AND BENEFITS

BIPOLAR IONIZATION OPTION: Improves Indoor Air Quality by releasing electrically-charged particles into the air. The ions interact with what is already present in the air—from viruses and bacteria to allergens and odors—destroying them or making them easy to remove. No chemicals are used, and no harmful byproducts are created in the process.

ENERGY SAVINGS: When compared to single or dual capacity units, the Variable Speed units significantly reduce the number of Watts need for heating and cooling. Depending on your usage profile and \$/kWh, typical energy savings can range from \$376 - 565 a year on a 3 ton unit.

SINGLE ZONE VAV: Provides ability to modulate both compressor and fan to maintain supply air temperature at a desired set point.

MULTI ZONE VAV: Modulating compressor meets indoor air temperature by providing precise leaving air temperature for a large space serviced by one unit.

VARIABLE CAPACITY COMPRESSOR: With a wide capacity range, the compressors will ramp up or down to meet the occupancy loads of the building.

TWINNING CAPABILITIES: Ability to twin up to 6 units to increase system capacity to meet the load requirements of a partial or full building.

INCREASED STATIC PRESSURE AND FILTRATION: Variable Speed Integrated ECM Plenum fans provide increased static pressure and filtration. Whether your building is at full staff or just a small number of employees, the Variable Speed fan motor will adjust the air flow and temperature based on your occupancy requirements.

REMOTE MONITORING: Because maintenance staff may not always be present in the building, the Aurora Advanced Controls allows for remote monitoring. With the click of a button, they can log into the system, check on refrigeration, energy, and system performance. UPC can be added to provide BACnet, N2 or LON for connection to the building automation system.

FREE COOLING: Save money and reduce energy use with a waterside economizer. Utilize free cooling by circulating cool water in the loop to pre-cool the entering air.

COAXIAL HEAT EXCHANGER: A robust coax condenser provides an enhanced heat transfer surface for highly efficient heat transfer. The coax is less susceptible to clogging and is more resistant to fouling, which makes it better solution for open tower systems.

MODEL SIZES: No matter the kind or amount of space there is to work with for installation, our Versatec Variable Speed units are available in both horizontal and vertical cabinets—as well as with bottom flow configurations.



60 ton example

Variable Capacity for High Efficiency

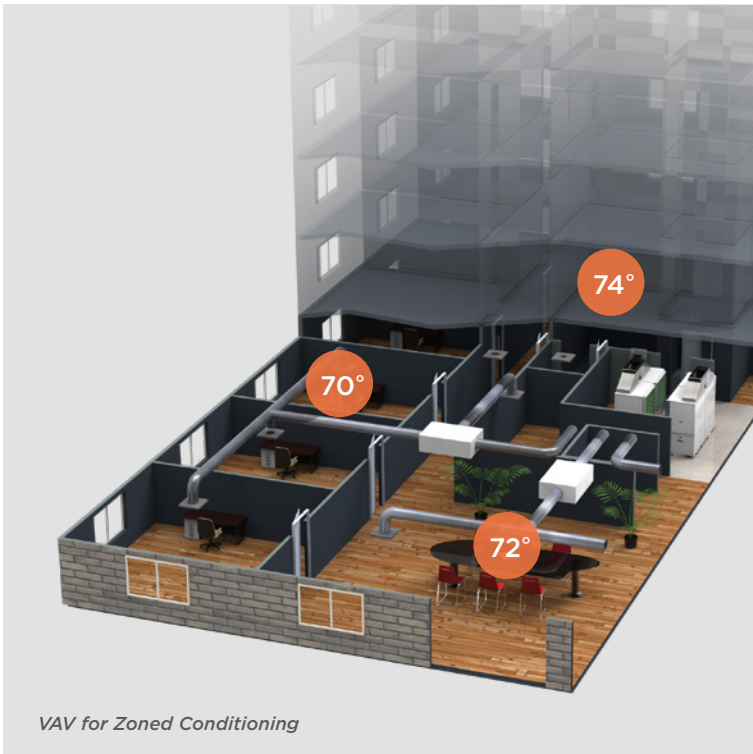
The reason Versatec Variable Speed systems are so good for fluctuating occupancy is because of the dynamic capacity, which ranges from 25% to 100%. That translates to incredible comfort at greater efficiencies—no matter how often needs change. Plus, a 4:1 turndown with load matching is a smart way to maximize LEED points.

Equipped for Dehumidification

The built-in technology of the Versatec Variable Speed does a better job regulating leaving air temperature than many other systems. This prevents overcooling the space in dehumidification mode—especially when occupancy is low. Plus, all units come with four-row air coils that allow for improved dehumidification over standard WSHP equipment.

Integration Innovation

With standard heat pumps, adding on a waterside economizer requires field-installed wiring, relays and an aquastat. The Aurora Advanced controls in Versatec Variable Speed equipment make going from compressor operation into waterside economizer mode a seamless process. There's no added field installation time for this energy-saving option and the economizer setpoint can be adjusted easily over the network.



VAV for Zoned Conditioning

VAV for Zoned Conditioning

Our leaving air temperature control with factory-provided static pressure sensor yields true VAV operation. That is crucial when you have a large, overall space that is served by one system but can be broken down into several, smaller zones.

- Allows for lower price per ton of large units while controlling the temperature of smaller zones
- Offers flexibility to operate heat pumps from standalone communicating sensors or from network variable

Designed to Handle More

All units are equipped with 4-row air coils that allow for improved dehumidification over standard WSHP equipment. Additionally, this enables the variable speed equipment to accommodate some of the outdoor air requirements without needing an entire DOAS unit.

- 50% of outdoor air @ 95°F/78°F in cooling mode
- Minimum airflow is 40% of maximum published cfm in specification catalog

Demand Control Ventilation

CO2 levels can be set and regulated within the upper/lower control limit using the built-in modulating demand control ventilation.