

## Up To Date

### FER Furnace Transition

*Inventory of non-FER compliant furnaces is very limited, but must be sold before the new product will be available. Before bidding a job, check on product availability and inform your homeowner that the model number may change before their installation date.*

### Carrier Cool Cash

*Carrier's Cool Cash promotion has ended. Installations must be completed and all claims filed by 4:00 PM on Wednesday, July 31.*

### Virtual Reality Training

*Your technicians can now troubleshoot equipment, use tools and correct problems as if they were on an actual service call. This cutting-edge VR training technology is available in Carrier's My Learning Center. Co-op funds may be used to purchase the required gear and hardware.*



## What's New on *SiglerTV*

**Clear the Clutter - 24ABP6**

**Hybrid Heat (2 videos)**

**Service Valve Tools**

*(the password is swd)*

Carrier's Infinity Series Single-Phase  
VRF Condensing Unit

## Carrier Infinity Series Single-Phase VRF

For an increasingly large number of applications, a single-phase VRF heat pump system is the perfect answer. It delivers the efficiency, flexibility and control of VRF system, but in a smaller capacity package. Single-phase VRF system outdoor units are stocked locally in three capacities, 3, 4 and 5-ton units. These are then matched with up to nine indoor units of varying styles. The system allows for a maximum capacity of 130% of the outdoor unit allowing you to take full advantage of load diversity in the building. All the indoor units can be controlled by their own individual controller, third-party thermostats or central controller.

The rotary compressor inside the condensing unit is equipped with DC Inverter and brushless motor to provide efficient operation and an optimized startup. This rotary technology provides better balance and lower compressor vibrations for quiet operation in both heating and cooling modes. The DC condenser fan motor rapidly adjusts to the changing compressor capacity which enhances the part load efficiency. Aerodynamically designed condenser

fans and air deflectors increase air flow over the coil and also reduce the overall noise of the unit. Finally, the piping design is very flexible as each fan coil simply branches off from the main line or central header.

Check out pages 7.8 and 7.9 inside the July 1 update of the Sigler Wholesale Distributors residential price pages. Why? Because the pricing on these single-phase VRF systems went down. Yes...down! With your new lower pricing, here are some ideal applications that you may want to consider:

- A townhome with multiple stories or other residence where precise temperature control is required.
- Zoning applications where damper bleed would waste money by unnecessarily heating or cooling unoccupied areas
- A 1:1 system where a larger ceiling-mounted ducted fan coil is required
- An installation where very long line sets are required
- Any situation where you want to set yourself apart from the competition and offer cutting edge technology

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## Featured Products



The new ecobee 5 thermostat is here! Also, called the ecobee Smart Thermostat with Voice Control, this control is pushing the boundaries of what a thermostat can do. Here are some key features compared to the ecobee 4...

- Make phone calls with Alexa Calling
- Bluetooth connection for streaming music and Spotify Connect
- Redesigned smart sensor with a bigger battery and higher frequency of occupancy and temperature data transmission for improved comfort
- 5.0 GHz WiFi for better connectivity



The EB-STATE5P-01 is now in stock and sells for the same price as the ecobee 4.

Ever wonder why you change so many run caps every summer? Seems like more every year, doesn't it? Do you remember when run caps lasted a lot longer?

While there are a few factors involved, the main reason parts don't last as long is because start components have been considered an accessory for standard efficiency equipment for many years and they are no longer factory installed. A start capacitor with a potential relay wired to the start and run terminals on the run-cap and to T-1 on the contactor will cut inrush current in half! Properly installed start components protect the run capacitor and contactor from high heat and voltage every time the unit starts – keeping the system working as it should much longer.

In July, every time you buy a 24AAA5 air conditioner, Sigler Wholesale Distributors will offer you the 5-2-1 compressor saver (model CSRU2) for only \$10!

## Technical Tips

### Q: What's up with the wiring diagram for the 4 and 5 ton 24APB6?

Yep, that product was introduced last year and we thought there would be some confusion so we covered it in our Fall 2018 class. Now that the products are starting to move, the questions are coming up.

Short story, the 4 and 5 ton units have an ECM condenser fan motor as standard from the factory. When used in low ambient cooling, the ECM motor is replaced with a PSC motor and fan speed control device. The schematic shows the ECM as standard, but includes the wiring for the PSC accessory with an obelisk †. Also note the unit is shipped with a dual capacitor, but the FAN portion of the

capacitor is not used with the ECM motor, it's just there for use with the accessory PSC motor.

The ECM motor has line voltage connections on the line side of the contactor, and a 24V signal wired in parallel with the compressor contactor coil. Any time the unit is powered voltage is present at the motor, and when there is a call for cooling the 24V circuit signals the motor to operate. Manually depressing the contactor will not energize the outdoor fan.

For the full story including diagrams, check out the video titled "Clear the Clutter" on SiglerTV.