

Up To Date

Refrigerant charge

Last year, Carrier added an additional factory charge of R454B to new equipment. Systems are now going back to 15' of charge. Be sure to check the nameplate at install.

Spring Training

Three more training classes are on the calendar for April and May. Don't miss the Carrier University two-day training on ductless, crossover and VRF sales. Registration is online at SiglerNorCal.com/training.

Nest Promotion

Through May 31, Nest 4th Gen GGA05169US and GGA05560US stats are discounted by \$25.

Customer Appreciation

There are three more customer appreciation lunch and trade show events this month:

- 4/14 - S San Francisco
- 4/21 - Concord
- 4/28 - San Jose



What's New on
SiglerTV
Commercial Packaged Units,
Economizers and Title 24

The team in South San Francisco

2025 Title 24 Requirements

2025 California Energy Code, commonly referred to as Title 24, went into effect on January 1, 2026. While it drives a lot of requirements for new construction or remodel projects, there are requirements for alterations or change-out jobs as well. A change-out is legally triggered when you replace key components such as the air handler, outdoor condensing unit, or any refrigerant-containing part like a compressor or cooling coil. When replacing more than 75% of the duct system in addition to the equipment, it's considered an entirely new system which triggers stricter mandatory requirements for fan efficiency and airflow rates. High-efficiency MERV-13 air filters are also required for any new duct system.

Because the Bay Area spans Climate Zones 2, 3, 4, and 12, projects must adhere to specific prescriptive standards that vary by geography. For instance, any new or replaced ducting in unconditioned space must meet R-8 insulation levels in zones 2, 4, and 12, while climate zone 3 only requires R-6. Furthermore, Energy Code Compliance (ECC) Rater (formally referred to as a HERS rater) verification

for refrigerant charge is mandatory for all air-source heat pumps in every zone, but for air conditioners it is only required in Zones 2 and 12. While the requirement for a programmable thermostat isn't new, there are some new requirements to lock out electric heaters when it's above 35° outside. Heating and cooling load calculations are also required when adding or replacing a system.

Finally, every project must be properly documented to pass final inspections. This process involves a chain of digital forms: the CF1R for initial compliance, the CF2R for the installation itself, and the CF3R for third-party verification. These forms must be registered with an approved provider, such as CHEERS, to be valid for the building department.

Navigating all the Title 24 requirements is very confusing. A great resource is EnergyCodeAce.com. Their fact sheet with "trigger tables" for single family HVAC alterations and variety of situations is linked at SiglerNorCal.com/Title24. If you need help, please ask your Sigler Wholesale Distributors Territory Manager.

Sigler

Wholesale Distributors

THE PRODUCTS YOU NEED
THE VALUE YOU DESERVE

Concord

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Steven Anello x8508
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Steve Moorhead x8501
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Josh Parrish x8517
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Linda Randall x8311

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Technical Support

415.330.6666 (call or text)

Featured Products



One requirement of Title 24 is that the line set be protected. A great product to easily accomplish that is the Airex E-Flex Guard. This protective cover consists of a proprietary vinyl, engineered to ensure durability while performing as a Class II Vapor Retarder to resist moisture damage to insulation and piping.

Another great way to have a clean install worthy of a 5-star review is the Airex Titan Outlet. It is an engineered wall enclosure system that seals and protects HVACR piping penetrations from weather damage, air leakage, pipe vibration, and pests. For added convenience, the Airex Titan Outlet and E-Flex Guard is also bundled together in a kit.



For over 58 years, JB Industries has stayed true to its roots as an authentic American manufacturer, designing and building rugged, high-performance HVAC tools in their Aurora, Illinois factory.



If you're in the market for a vacuum pump, you have to check out the **DV-200N** or **DV-240DC**. They're solid, reliable, and built without shortcuts for the kind of performance technicians can depend on. Another great product is the **F6-BOOST** recovery machine. It provides 20% faster recovery rates than competitor models. The unique 2-cylinder, oilless compressor with long-lasting pistons are contained in a lightweight, ergonomically designed, easy-to-use unit.

Several JB Industries products are discounted in the Spring Sigler Club program. Place an order today!

Technical Tips

Q: How can I tell if the board or the motor is the cause of my blower failure?

Most of the furnaces and fan coils we offer have a separate service manual that can be downloaded from your Carrier Service Tech App. For both communicating and PWM motors, your voltmeter needs to be capable of very low DC voltage. Seeing slight changes in voltage versus steady voltage is a key tech tip. Test your meter out on a good motor before you need to test a dead one.

Treat yourself to a set of needle test leads for your new meter. Regular sized leads can spread out the brass connections, causing a motor to board communication failure. A common phrase we hear after a connector is

damaged is, "I changed the motor, then I changed the board, and it still doesn't work."

Troubleshooting new PWM motors is simplified when you realize that a constant 15 DCV is fed from the board to the motor. When in standby mode, the motor torque control signal has 10 to 15 DCV to common. After the blower is commanded to run, the control signal voltage drops as motor speed increases. The feedback wire (if equipped) will be at a near 0 VDC at standby. The feedback DCV increases as the RPM increases. Every situation can be a little different, so text us at 415-330-6666 if you need support.