

Comfort, efficiency and economy.  
Floor-by-floor or zone-by-zone.

SIGMA COMMERCIAL SELF-CONTAINED SERIES

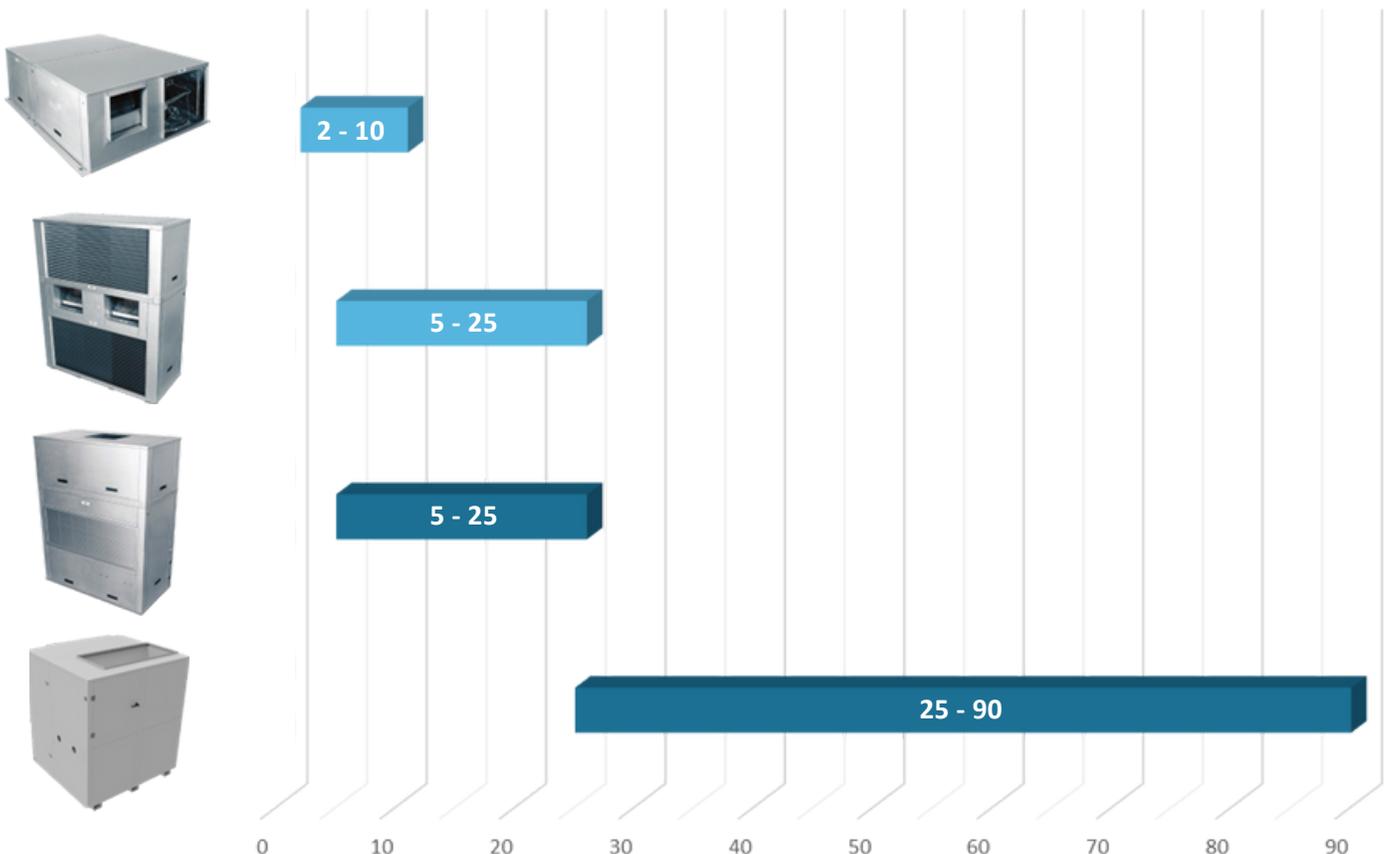


## When space is at a premium, Sigma's Air-Cooled and Water-Cooled Self-Contained Units are a perfect fit.

Indoor self-contained units are designed to keep a building comfortable all year round. This is done at one of the lowest installation costs possible without compromising operation cost or flexibility. Our higher capacity air- and water-cooled units provide high efficiency performance that helps lower energy costs, with an additional benefit of a low-noise air distribution system. Air-cooled units provide a simple solution that eliminates the need for a cooling tower and complex building piping arrangements, while water-cooled air conditioners have a heat exchange process that is inherently 10x more efficient than air-cooled. Both air-cooled and water-cooled solutions offer multiple options to improve efficiency and comfort.

Like other packaged equipment such as rooftops or split systems, indoor self-contained units have the same advantages when it comes to providing a simple HVAC solution, and are great for individual tenant, metering, but have their own unique advantages:

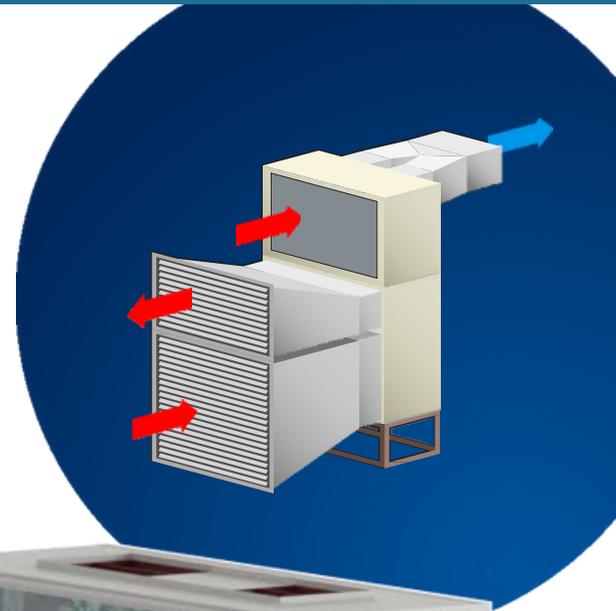
- Improved building aesthetics
- Protection from the elements extends equipment life
- Less multi-floor ductwork enabling easier retrofit and expansion flexibility
- Convenient indoor service access



## Air-Cooled Self-Contained Units: D-Series 2-25 Tons

The D-Series Self-Contained Horizontal and Vertical units from SIGMA offer a complete line of unit options for high-rise and single-story building applications. Units are easily installed on the perimeter of the building for condenser airflow. Horizontal units can also be installed in a split configuration to allow the evaporator section to be located closer to the conditioned space, saving costly duct installation and improving unit efficiency. Plus, available airside economizers allow the unit to operate without the compressor to take advantage of free cooling when outside air temperatures are appropriate. The D-Series features high efficiency and quality engineering for convenient installation.

- **Lower Operation Costs** – Overall best in class energy efficiency with EER between 10 and 12 and independent zone control
- **Easy Installation-Field** – Convertible discharge orientation; refrigerant circuit isolation valves
- **Flexibility** – Available in both horizontal (ceiling suspended 2–10 tons) and vertical configurations (free-standing 5–25 tons) with ability to upsize motors for applications with higher external static pressure requirements
- **Redundancy** – Dual independent compressor circuits on 8, 10, 12, 15, 20 and 25-ton models
- **Controller** – Microprocessor control with LED status; with optional Building Automated System (BAS) connectivity to BACnet or Modbus. Comes standard with webpage diagnostics for easy start-up and troubleshooting.
- **Heavy Duty** – Heavy gauge galvanized steel unit casings; cabinet interior lined with ½-inch thick, 2-lb. density, acoustic insulation

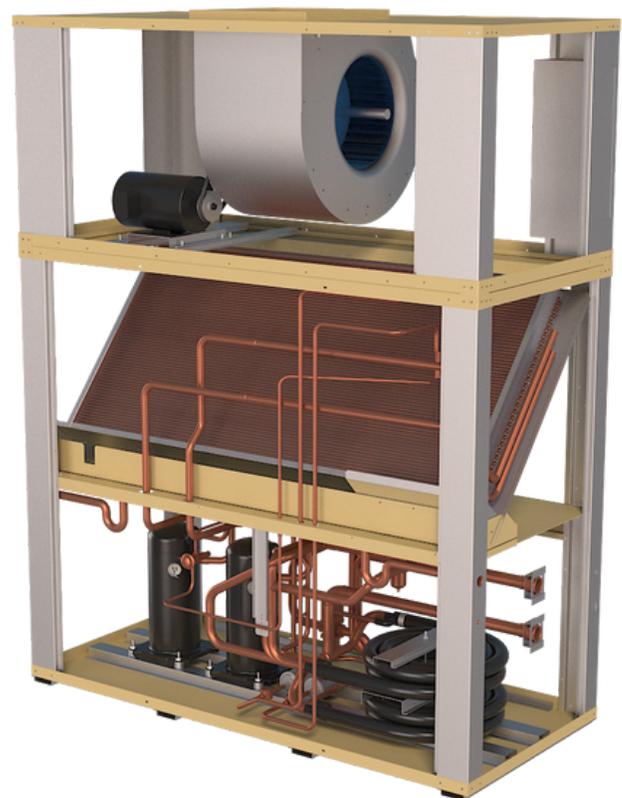


## Water-Cooled Self-Contained Units: C-Series 5-25 Tons

Some applications have limited roof space, access issues, or capacity limitations. The **C-Series Water-Cooled Self-Contained Units** can minimize complications for these kinds of renovation and new construction projects. The SIGMA compact, low-profile indoor design minimizes the need for unsightly exterior equipment and protects against potential vandalism or equipment weathering.



- **Highly Efficient** – Floor-by-floor independent metering/temperature control and EER values between 12.2 and 13.5
- **Easy Installation** – Field-convertible discharge orientation; separate evaporator/compressor and fan section modules allowing field separation
- **Design Flexibility** – Available in vertical (free-standing 5–25 tons) configurations with the ability to upsize motors for applications with higher external static-pressure requirements
- **Redundancy** – Dual independent compressor circuits on 8, 10, 15, 20 and 25-ton models
- **Heavy Duty** – Heavy gauge galvanized steel unit casings; cabinet interior lined with ½-inch thick, 2-lb. density, acoustic insulation
- **Controller** – Microprocessor control with integrated Building Automated System (BAS) connectivity to BACnet or Modbus. Comes standard with webpage diagnostics for easy start-up and troubleshooting.



## Water-Cooled Self-Contained Modular Units: C-Series 25-90 Tons

Some applications have limited space, access issues, or capacity limitations. The **C-Series Water-Cooled Self-Contained Modular Units** can minimize complications for these kinds of renovation and new construction projects. Designed to fit through a standard commercial doorway or hallway, each individual section do not exceed 34inch width and 80inch height.

- **Highly Efficient** – Floor-by-floor independent metering/temperature control designed to meet high DOE minimum efficiency requirements.
- **Easy Installation** – Unit ships in sections that allow for ease in moving through tight spaces, and supports refrigerant and electrical quick connects for simplified field assembly.
- **Design Flexibility** – Available in various configurations to fit all kinds of field requirements; left/right hand configuration, fan modules, integrated economizer and many more.
- **Heavy Duty** – Heavy gauge galvanized steel unit casings; cabinet interior lined with ½-inch thick, 2-lb. density, acoustic insulation. Double wall construction standard on all units.
- **Controller** – Microprocessor control with integrated Building Automated System (BAS) connectivity to BACnet or Modbus. Comes standard with webpage diagnostics for easy start-up and troubleshooting.

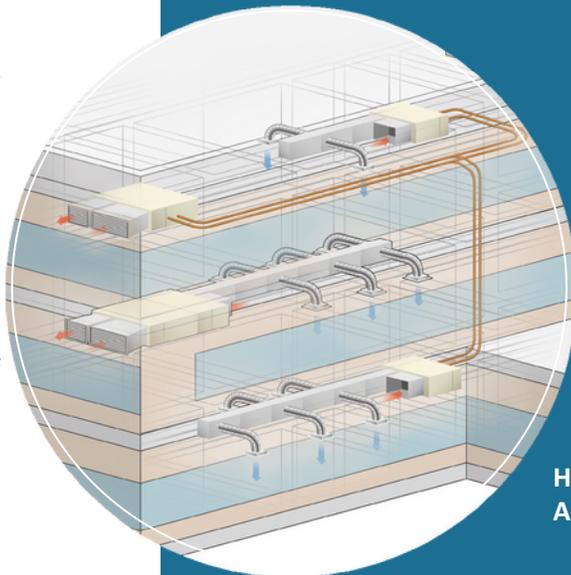


## Seamless Controls

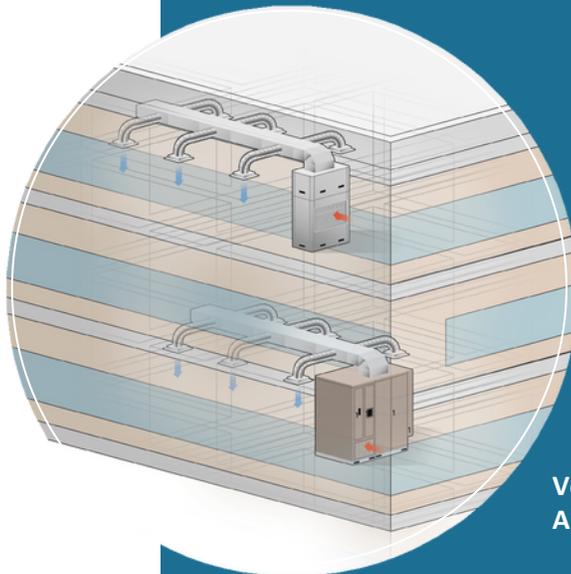
Air-cooled D-Series and Water-Cooled C Series units feature factory-installed Controls with LED status lights for quick troubleshooting and fault detections. Accessible through laptop or optional WIFI stick to access embedded controls webpage using a mobile phone, tablet or laptop. On-board controls feature real-time status updates, multi-point data logging for diagnostics and troubleshooting, and a parameter configuration screen. Minimize downtime by accessing the logged data screen to access all key parameters. The controller maximizes control for greater efficiency, extended equipment life and reduced operating costs. Plus, optional BAS connectivity is also available for BACnet and Modbus.

## Total Packaged Solution

Sigma offers the perfect combination of high quality equipment with highly capable controls. Controls solutions can be custom tailored for various input or output field alarm requirements to meet the demands of most applications. Units come factory programmed from simple Constant Volume (CV) systems to more complex Single or Multi Zone Variable Air Volume (VAV) systems.



Horizontal  
Air-cooled



Vertical  
Air & Water-cooled

# Options You Can Count On.

| Option  | Air-Cooled    |            | Water-Cooled  |         |
|---|---------------|------------|---------------|---------|
|   | Vertical      | Horizontal | Vertical      | Modular |
| Tonnage Range   | 5-25          | 2-10       | 5-25          | 25-90   |
| <b>Economizer</b>   |               |            |               |         |
| Airside Economizer  | X             | X          | O             | O       |
| Waterside Economizer                                      |               |            | X             | X       |
| <b>Controls</b>   |               |            |               |         |
| Sigma CSC Controller                                      | X             | X          | X             | X       |
| BAS Communication   | X             | X          | X             | X       |
| Wireless Connectivity                                     | X             | X          | X             | X       |
| Thermostat Controls                                       | X             | X          | X             | X       |
| Built-in Display  | O             | O          | O             | O       |
| Condensate Overflow                                       | X             | X          | X             | X       |
| Low Ambient Condenser Control                             | X             | X          | N/A           | N/A     |
| <b>Fan</b>  |               |            |               |         |
| High Static Blower/Motor                                  | X             | X          | X             | N/A     |
| Totally Enclosed Fan Cooled (TEFC) Motors                 | X             | X          | X             | X       |
| Direct Drive Backward Curved Airfoil Plenum Fans          | N/A           | N/A        | N/A           | X       |
| Backward Curved Centrifugal Fans/EC Motors                | N/A           | N/A        | N/A           | X       |
| <b>Heating</b>  |               |            |               |         |
| Hot Water Heating Coil (External)                         | X             | X          | X             | X       |
| Electric Heat Controls (Heater Field Supplied & External) | X             | X          | X             | X       |
| <b>Capacity Control</b>                                   |               |            |               |         |
| Constant Volume   | 5 ton         | 2-5 tons   | 5 ton         | N/A     |
| Discrete Speed  | 8 tons and up |            | 8 tons and up |         |
| Single Zone Variable Air Volume (SZVAV)                   | 8 tons and up |            | 8 tons and up |         |
| Multi Zone Variable Air Volume (MZVAV)                    | 8 tons and up |            | 8 tons and up |         |
| Variable Speed Compressor Modulation                      | N/A           | N/A        | N/A           | X       |
| <b>Construction</b>                                       |               |            |               |         |
| Corrosion Resistant Coil Coatings                         | X             | X          | X             | X       |
| Harsh Environment Coil Coatings                           | X             | X          | X             | X       |
| Discharge Plenum  | X             | X          | X             |         |
| Option to Field Install Split System                      | X             | X          | X             |         |
| Stainless Steel Drain Pan                                 | X             | X          | X             | X       |
| <b>Additional Features</b>                                |               |            |               |         |
| Y-Strainer  | N/A           | N/A        | X             | X       |
| Water Regulating Valve                                    | N/A           | N/A        | X             | X       |
| Brazed Plate Heat Exchanger Condenser                     | N/A           | N/A        | X             | X       |
| Hot Gas Bypass  | X             | X          | X             |         |
| Improved Sound Package                                    | X             | X          | X             | X       |

X – Standard Features, O – Optional Features (Contact Factory)

# Quite the Package.

Mechanical Adaptability. Architectural Flexibility. Individualized Control. Energy Savings. Easy Installation. Reduced Floor Space. Excellent Indoor Air Quality. Quiet Operation. The Commercial Self-Contained Series from SIGMA is the perfect fit for any application.

For more information on **Commercial Self-Contained Series**, call your sales representative or visit [www.sigmaproducts.com](http://www.sigmaproducts.com)

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