

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

JOHNSON CONTROLS COMMERCIAL SELF-CONTAINED SERIES



When space is at a premium, Johnson Controls' 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



D-Series

Air-cooled



D-Series



C-Series

Water-cooled

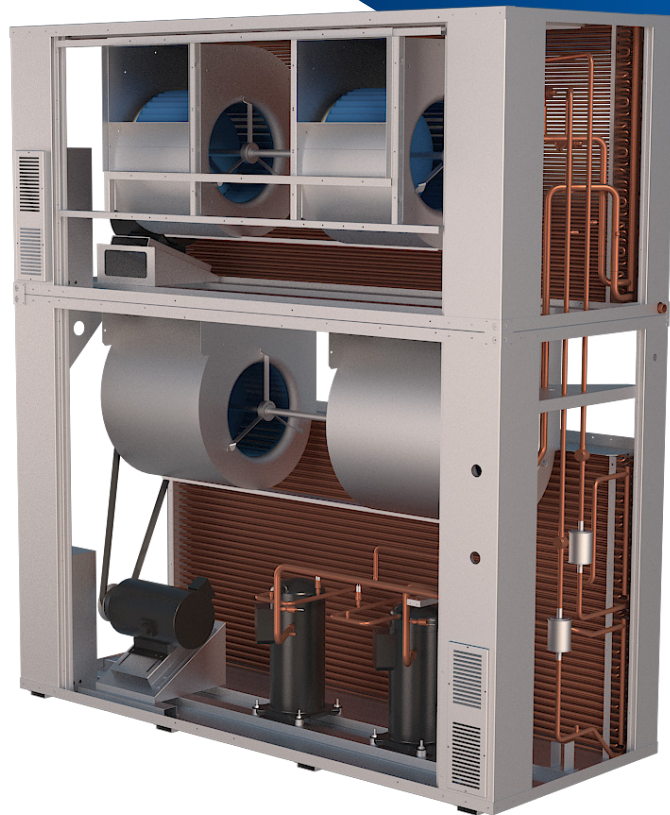
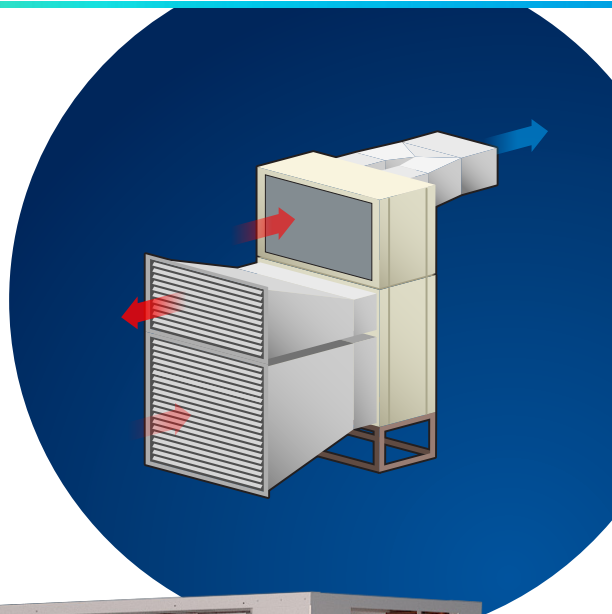


L-Series

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

The D-Series Self-Contained Horizontal and Vertical units from Johnson Controls 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.

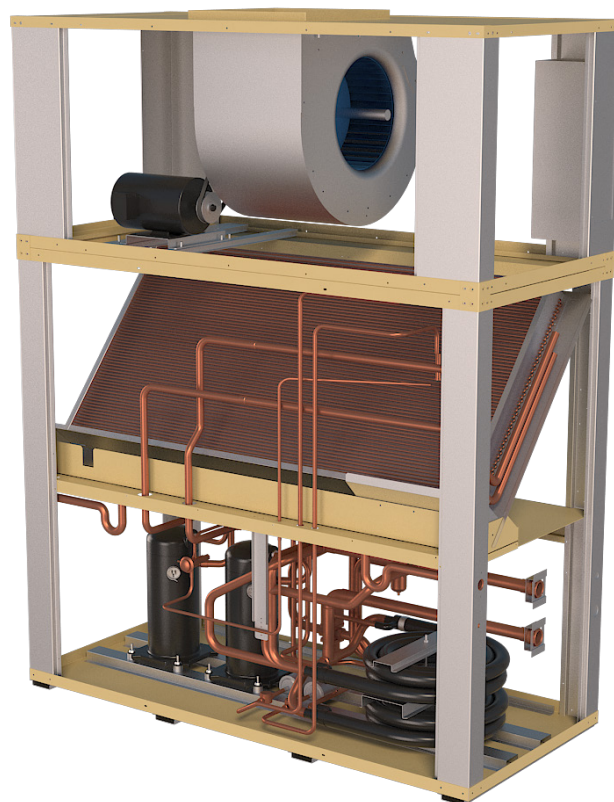
- **Lower Operation Costs** – Overall best in class energy efficiency with EER between 10 and 12 and independent zone control
- **Easy Installation-Field** – Convertible discharge orientation; refrigerant circuit isolation valves
- **Flexibility** – Available in both horizontal (ceiling suspended 2-10 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
- **SMART Equipment** – Microprocessor control with LED status indicator; used for full Building Automated System (BAS) connectivity or standalone with optional Wi-Fi hotspot through MAP gateway device
- **Heavy Duty** – Heavy gauge galvanized steel unit casings; cabinet interior lined with 1/2-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. Johnson Controls' compact, low-profile indoor design minimizes the need for unsightly exterior equipment and protects against potential vandalism or equipment weathering.

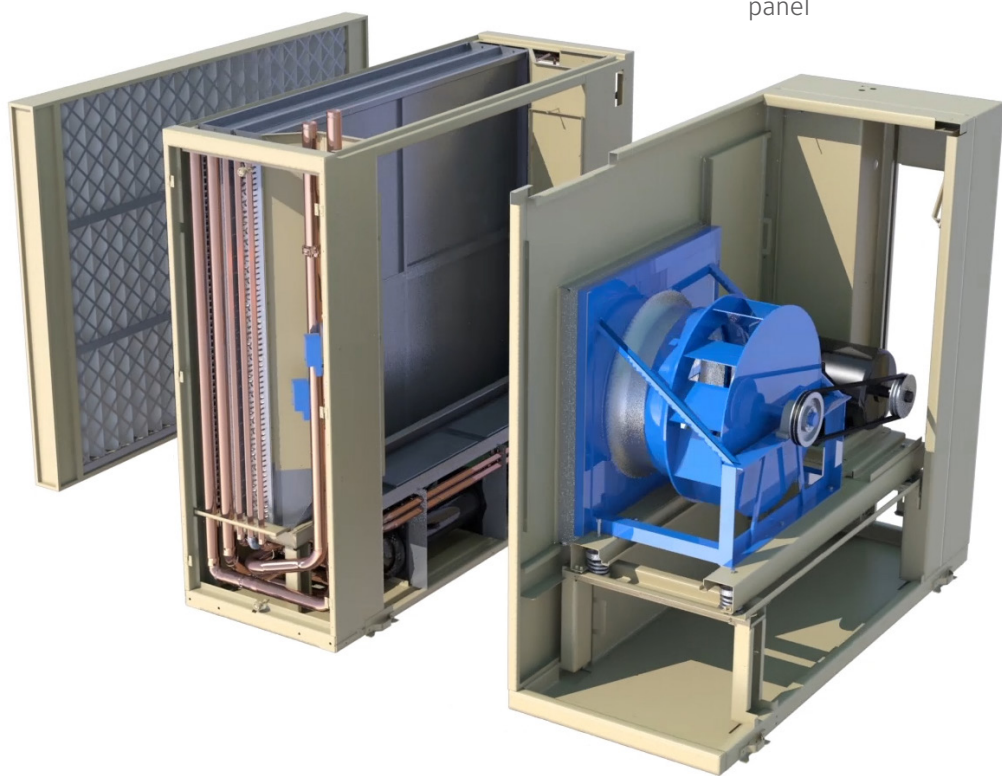
- **Highly Efficient** – Floor-by-floor independent metering/temperature control and EER values between 12.2 and 13.5
- **Easy Installation** – Field-convertible discharge orientation; separate evaporator/compressor and fan section modules allowing field separation
- **Design Flexibility** – Available 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 1/2-inch thick, 2-lb. density, acoustic insulation
- **SMART Equipment** – Microprocessor control with LED status indicator; used for full Building Automated System (BAS) connectivity or standalone with optional Wi-Fi hotspot through MAP gateway device



Water-Cooled Self Contained Units: L-Series 25-105 Tons

The L-Series Water-Cooled Self-Contained Unit is the ultimate solution to addressing energy efficiency, reliability, indoor air quality, and sound concerns for commercial, industrial and institutional buildings. Johnson Controls offers a simple system design that provides individual comfort control on every floor. The L-Series unit is an industry leader in energy efficiency with an array of features for Indoor Air Quality (IAQ), and contains maximum compressor sizes in accordance with building codes so that facility engineers are not required. This unit offers low service clearances reducing mechanical room space and is available with shipping splits for navigating tight corridors and elevators in retrofit applications.

- **Lower Operation Costs** – Overall best in class energy efficiency with EER between 13.1 and 15.3 and floor-by-floor independent metering/temperature control
- **Lower Installation Costs** – Single point power connections; single condenser water inlet and outlet connections; factory-installed internal condensate drain connection; factory-installed internal piping; split shipment without the need to braze, evacuate and charge refrigerant
- **Energy-Saving** – Variable condenser water flow with internal actuated valves; scroll compressors with highly efficient condenser and evaporator coil design; airfoil blade plenum fans; airside or waterside economizers
- **Redundancy** – Multiple independent refrigerant circuits
- **Easy Access** – Hinged doors; filter access; condensate drain; expansion valves
- **IAQ** – 4-inch thick MERV 13 filters; double-sloped drain pan; sound-reducing perforated fan section
- **Intuitive Diagnostics** – Large interface on external panel



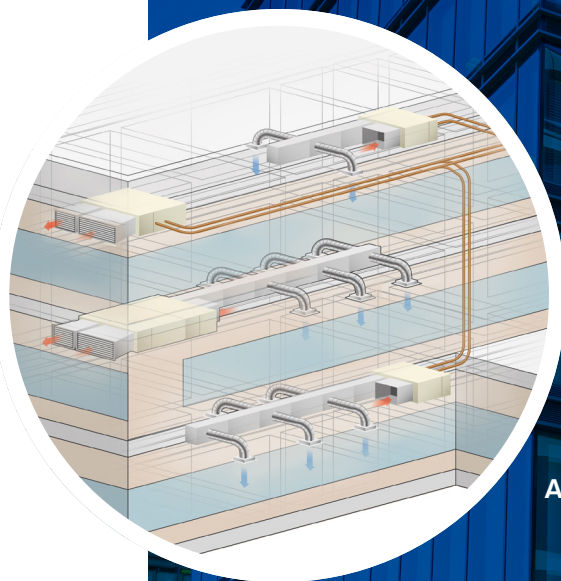
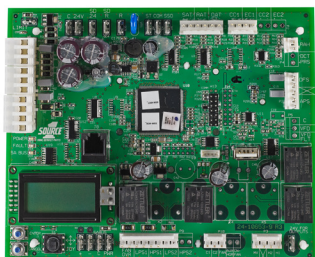
Seamless Controls

Air-cooled D-Series and Water-Cooled C Series units have factory-installed Smart Equipment controls that connect seamlessly like a Building Automation System (BAS) without the additional cost of a BAS. Through the use of the portable hand-held MAP device, users can access one or more units using a mobile phone, tablet or PC, either over Wi-Fi or hardwired connection. On-board controls support cloud-based data analytics, including fault detection, to enable proactive maintenance and minimize downtime. Smart Equipment helps maximize control for greater efficiency, extended equipment life and reduced operating costs. Plus, full BAS connectivity is also available.

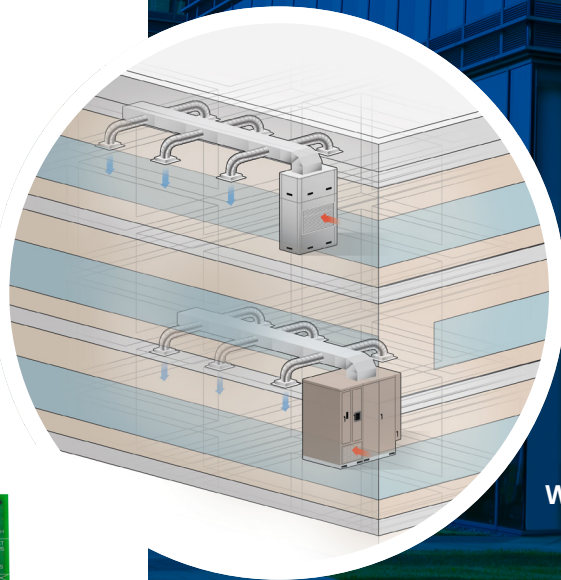
Larger tonnage Water-Cooled L-Series Units contain a microprocessor-based control system with proven algorithms. The large 32-key operator interface and display is readily accessible without opening any panels. Additionally, alarms and faults are displayed and stored in the controller memory.

Total Packaged Solution

Johnson Controls offers the perfect marriage of high quality equipment with highly capable controls. Controls solutions can be tailored to meet the demands of any application, from simple Constant Volume (CV) systems to more complex Variable Air Volume (VAV) systems. We provide integration to BACnet and N2 system as well as more simple integrations on C-Series and D-Series utilizing the MAP technology."



Air-cooled



Water-cooled

Options You Can Count On.

		Air-Cooled	Water-Cooled	
Option		D-Series	C-Series	L-Series
Tonnage Range	Horizontal (Ceiling Hung)	2–10		N/A
	Vertical (Floor Mounted)	5–25	5–25	25–105
Economizer				
Airside Economizer		X		X
Waterside Economizer		N/A	X	X
Controls				
Microprocessor Controls		X	X	X
BAS Communication		X	X	X
Condensate Overflow Switch ¹		X	X	see note ¹
Low Ambient Condenser Freeze Protection		X	N/A	N/A
Blowers				
High Static Blower Motors		X	X	
Plenum Fan				X
Heating				
Hot Water Heating Coil		X	X	X
Steam Heating Coil		X	X	X
Electric Heat				X
Capacity Control				
VFD for Variable Air Volume (VAV)		8 tons and larger	8 tons and larger	X
Variable Capacity				X
Construction				
Corrosion Resistant Coatings		X	X	
Cubro-Nickel Condenser ¹		N/A	X	see note ¹
Discharge Plenum		X	X	X
Option to Install as Split System (Horizontal)		X	N/A	N/A
Return Air Grille			X	
Stainless Steel Drain Pan		X	X	X
Two-Sided Service				X
Water Regulating Valves		N/A	X	X

¹Contact factory

Quite the Package.

JOHNSON CONTROLS COMMERCIAL SELF-CONTAINED SERIES

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 Johnson Controls is the perfect fit for any application.

For more information on **Commercial Self-Contained Series**, call your sales representative or visit johnsoncontrols.com.



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