

COMMERCIAL COMFORT SYSTEMS

SINGLE PACKAGED UNITS
SERIES 100



50 - 150 TONS

Make a big impact on efficiency



Energy-saving performance.

Johnson Controls recognizes that large, single packaged units can have a significant impact on a facility's energy bill. For that reason, Series 100 units have been designed to address the economic concerns of facility owners and designers.

High-efficiency scroll compressors, multiple-step capacity control, and fully modulating gas heat deliver superior energy performance and better comfort. The microprocessor control center ensures the proper quantity of ventilation air, eliminating the cost of conditioning excess air. High-efficiency motors can reduce supply-fan energy consumption. An airside economizer enables compressor-free cooling when outdoor air is cool and dry. Variable-speed drives can slash fan-energy costs as much as 40% compared to the inlet-guide vanes found on some competitive units.

Application Flexibility

Flexible design configurations simplify the design process, making Series 100 units applicable for virtually any building application: commercial buildings, schools, hospitals, and more. Airflow configurations support variable air volume (VAV), changeover/bypass, and constant-volume applications. Supply-duct connections are configurable for bottom, left, or right discharge. In addition to cooling-only models, available heating configurations include staged gas, modulating gas, electric resistance, hot water, and steam.

- Cooling capacities: 50 to 150 tons
- Meet or exceed ASHRAE 90.1 energy standards
- Factory-mounted controls for easy set-up and programming
- Double-wall construction and double-sloped drain pan enhance IAQ
- Footprint as much as 20% smaller than competitive units
- Single-point power connection reduces field wiring costs



Capacities
50-150 tons
Efficiency
Meet or exceed ASHRAE
90.1 energy standards



Full control capabilities

The microprocessor control center is equipped with all I/O capabilities and control sequences. A multimedia card interface is included for software upgrades, and can be used for data-logging to simplify equipment troubleshooting. Communication ports include three alarm outputs, a shutdown contact, remote start/stop input, smoke-ventilation controls, analog inputs for supply-air temperature and duct-static pressure, along with a variety of other capabilities. With a finger's touch, the microprocessor control center provides all unit information in plain language on a 4x20-character LCD display. Inputs are programmed with a simple push-button menu.

A variety of control and communication interfaces are available. Choose between BACnet MS/TP communications, Modbus RTU Communications, or control the unit with a zone sensor for stand-alone operation. All controls are factory-installed by Johnson Controls, assuring easy setup, programming, and worry-free operation.

Easy to maintain

Advanced design minimizes the hassles often encountered with servicing competitive packaged systems.

- Double-wall sides and floor improve durability and cleanability
- Drainpans are visible and accessible as required by ASHRAE 62 IAQ standard
- Scroll compressors have fewer moving parts to minimize service
- Access doors on both sides of the unit for easier access
- Data logging by microprocessor control center speeds troubleshooting
- A 115V GFCI convenience outlet is available for powering tools or lights for servicing
- Filters can be provided with a dirty-filter alarm, to indicate when replacement is needed

SERIES 100 GAS/ELECTRIC HIGH EFFICIENCY								
Model	Standard Length without Hoods (in.)	Width (in.)	Height (in.)	Weight, Cooling with Economizer (lb.)	Compressors Quantity	Staged Gas Furnaces (input/output/stages)	Modulating Gas Furnaces (input/output/turndown)	Electric Heat (steps/max kW)
50	344	92	82	8282	4	375mbh/300mbh/2 750mbh/600mbh/4 1125mbh/900mbh/6	375mbh/300mbh/8:1 750mbh/600mbh/16:1	7/150
55	344	92	82	8394	4			7/150
60	344	92	82	8607	4			7/150
65	344	92	82	8703	4			7/150
70	454	92	92	11,951	6			7/200
75	454	92	92	12,100	6		375mbh/300mbh/8:1 750mbh/600mbh/16:1 1125mbh/900mbh/24:1	7/200
80	454	92	92	12,466	6			7/200
90	488	92	92	12,671	6			7/250
105	488	92	92	12,891	6			8/250
120	424	140	102	20,467	6			1125mbh/900mbh/6
130	424	140	102	20,620	6	6/250		
150	424	140	102	20,674	6	6/250		

Johnson Controls provides a complete selection of commercial comfort systems, along with the industry's broadest line of HVAC controls. We've got whatever you need to create a comfortable, safe and sustainable environment.

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