



15 - 25 TONS

Dependability, inside and out



Designed to operate at a higher level, for longer.

The Series 20 from Johnson Controls delivers rugged reliability in an energy efficient package. This light commercial packaged unit can help reduce heating and cooling costs with EER ratings as high as 12.4. It exceeds ASHRAE 90.1 Energy Efficiency Standards for commercial rooftop systems. And we offer environmentally responsible HFC-410A units to meet your cooling and heating needs.

Built-in durability

You get more features that add up to more durability with the Series 20. The compressor is internally protected against high pressure and temperature. In both the two-stage and ultra high efficiency four-stage units, independent circuits help avoid complete shutdown of the entire unit.

Heat exchangers are made of corrosion-resistant, aluminized steel tubular construction. Grooved copper tubes and aluminum fin construction promote efficient heat transfer.

For long-lasting finish, the Series 20 is made from durable, powder painted steel, with double wall construction, and built to withstand the abuse of harsh weather.

Increased performance, reduced costs

Series 20 units are field convertible from downflow to horizontal flow. They're factory wired, piped, charged and tested prior to shipment. And full perimeter base rail is permanently attached to the unit. It all means reduced installation time and costs.

- Phase monitors are standard to protect compressors during start-up due to phase loss, reversed phase rotation or improper voltage
- HFC-410A refrigerant for environmentally responsible operation
- Energy-saving efficiencies up to 12.4 EER
- Full perimeter base rail for easy installation
- 80% efficient solid-state gas heating
- Designed for rugged reliability and improved heat transfer
- Compliance with ASHRAE 90.1 energy-efficiency standards

Ultra high efficiency model shown.



Capacities
15, 18, 20 & 25 tons
Efficiency
Meets or exceeds ASHRAE
90.1 energy standards



The Series 20 is perfect for applications that require efficient cooling in a long-lasting, durable package:

- Light manufacturing
- Warehouses
- Mid-size office buildings
- Supermarkets
- Medical offices and clinics

Connect to the industry's most advanced commercial control system

Johnson Controls Series 20 single packaged units can be easily integrated into the Commercial Comfort Systems family of controls. These controls are specifically engineered for Johnson Controls single packaged units. They provide patented Johnson Controls technologies, including self-tuning algorithms, in a complete package. The controllers, sensors and damper assemblies are engineered and pre-configured so they're easy to startup and commission. No programming or any specialized controls knowledge is needed to run the system. The sleek, innovative system manager has an integrated, browser-based interface for remote monitoring, accessible by its own color touchscreen display. As a result, the Johnson Controls Series 20 single packaged units will give you maximum comfort and efficiency.



Even as a stand alone unit, you get total control with the following features:

Single or Multiple Zones for constant- or variable-air volume

365-Day Real Time Clock with automatic Daylight Savings Time adjustment.

Occupancy Schedule allowing two different occupied schedules per day for each of the seven days of the week.

20 Holiday Schedules with a length of up to 99 days, each with flexible start times.

Energy-Saving Economizer Operation with the flexibility of using dry bulb, outside enthalpy and differential enthalpy. Our economizer enthalpy control has setpoints for outside air temperature, supply air temperature, small space cooling demand, and large space cooling demand.

Demand-based Ventilation control using CO₂ sensing for improved indoor air quality.

Comfort Ventilation Control tempers the ventilation air when heating or cooling is not required, saving energy.

Temperature and Humidity Algorithm offsets the operating setpoint based on high humidity in the space—with programmable limits to control humidity.

Low and High Ambient Lockout to prevent cooling below or heating above a programmable setpoint of outside air temperature.

Space Temperature Alarm in the event that temperatures exceed programmable limits.

Smoke Purge automatically ventilates space when smoke is detected.

Dirty Filter Switch to detect dirty filters.

Intelligent Recovery brings space temperature to the occupied setpoint just before occupancy. The control will "learn" how much runtime is required to heat or cool the space to setpoint before occupants arrive.

Anti-Short Cycle Delay of 5 minutes to prevent energy-wasting short cycling.

Gas Monitor for safe heat operation.

SERIES 20 GAS/ELECTRIC HIGH EFFICIENCY

Model	Cooling Capacity	Efficiency	Indoor	Gas Heating Performance			Unit Dimensions (in.)	Operating Weight (lbs.)
	MBH	EER	Sound Rating (dB)	MBH Input	MBH Output	% SSE		
J15ZFN24 / J15ZFN32	181	11	89	300 / 400	240 / 320	80	125 1/4L x 92W x 48 5/8H	2100
J15ZJN24 / J15ZJN32	183.5	12.4	89	300 / 400	240 / 320	80	180 19/32L x 92W x 52 5/8H	2609
J18ZFN24 / J18ZFN32	208	11	92	300 / 400	240 / 320	80	136 1/4L x 92W x 52 5/8H	2150
J18ZJN24 / J18ZJN32	213.7	12.1	92	300 / 400	240 / 320	80	180 19/32L x 92W x 52 5/8H	2665
J20ZFN24 / J20ZFN32	259	10	92	300 / 400	240 / 320	80	136 1/4L x 92W x 52 5/8H	2300
J20ZJN24 / J20ZJN32	242	11.6	92	300 / 400	240 / 320	80	180 19/32L x 92W x 52 5/8H	2697
J25ZFN24 / J25ZFN32	279	10	98	300 / 400	240 / 320	80	136 1/4L x 92W x 52 5/8H	2545
J25ZJN24 / J25ZJN32	312	10.4	98	300 / 400	240 / 320	80	180 19/32L x 92W x 52 5/8H	2783

SERIES 20 ELECTRIC/ELECTRIC HIGH EFFICIENCY

Model	Cooling Capacity	Efficiency	Outdoor	Electric Heating Performance (kW)			Unit Dimensions (in.)	Operating Weight (lbs.)
	MBH	EER	Sound Rating (dB)	240 V	480 V	600 V		
J15ZFE18 / J15ZFE36	181	11	89	18 / 36	18 / 36	18 / 36	125 1/4L x 92W x 48 5/8H	2100
J15ZFE54 / J15ZFE72	181	11	89	54 / 72	54 / 72	54 / 72	125 1/4L x 92W x 48 5/8H	2100
J15ZJE18 / J15ZJE36	183.5	12.4	89	18 / 36	18 / 36	18 / 36	180 19/32L x 92W x 52 5/8H	2609
J15ZJE54 / J15ZJE72	183.5	12.4	89	54 / 72	54 / 72	54 / 72	180 19/32L x 92W x 52 5/8H	2609
J18ZFE18 / J18ZFE36	208	11	92	18 / 36	18 / 36	18 / 36	136 1/4L x 92W x 52 5/8H	2150
J18ZFE54 / J18ZFE72	208	11	92	54 / 72	54 / 72	54 / 72	136 1/4L x 92W x 52 5/8H	2150
J18ZJE18 / J18ZJE36	213.7	12.1	92	18 / 36	18 / 36	18 / 36	180 19/32L x 92W x 52 5/8H	2665
J18ZJE54 / J18ZJE72	213.7	12.1	92	54 / 72	54 / 72	54 / 72	180 19/32L x 92W x 52 5/8H	2665
J20ZFE18 / J20ZFE36	259	10	92	18 / 36	18 / 36	18 / 36	136 1/4L x 92W x 52 5/8H	2300
J20ZFE54 / J20ZFE72	259	10	92	54 / 72	54 / 72	54 / 72	136 1/4L x 92W x 52 5/8H	2300
J20ZJE18 / J20ZJE36	242	11.6	92	18 / 36	18 / 36	18 / 36	180 19/32L x 92W x 52 5/8H	2697
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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.