SINGLE PACKAGED UNITS

High efficiency out of the box

Johnson Controls

SINGLE PACKAGED UNITS - SERIES 10, 3 - 12 ½ TONS

SINGLE PACKAGED UNITS **SERIES 10**

Where energy efficiency and easy installation come together

The Johnson Controls Series 10 single packaged unit combines superior efficiency ratings (up to a 12.4 energy efficiency ratio or EER) and ease of installation in a light commercial unit. You save time and money on installation, while reducing energy usage over the long run. In fact, it's designed to deliver the highest energy cost savings of any equipment of its kind.

The common footprint makes it easy to install on a curb, slab, or structural steel. A rigid, full perimeter base rail allows 3-way forklift access and overhead rigging which simplifies the installation process. Plus, each unit comes completely wired, piped, charged and tested from the factory.

Field flexibility

This convertible air-flow feature helps reduce cutting sheet metal in the field. All indoor fan motors are belt driven and will handle your airflow requirements. Also, gas and electric knockouts are at the bottom and side of the unit for easy access.

The Series 10 is designed for ease of service as well. Quick access areas make inspection of components easier, including the control compartment, compressors, filters, and heating section. The motor and blower slide out as a single assembly for hassle-free serviceability.

Capacities	Efficiency
3 – 5 tons	18 SEER/80% SSE
6 ½ – 12 ½ tons	12.2 EER/80% SSE

What's your application?

The Series 10 has more standard and optional features to meet your needs for flexible, efficient, and reliable cooling.

Choose from models that offer:
- cooling only
- cooling with electric heat
- cooling with gas heat

In order to help you better maintain desired temperatures in the gas heating model, the first stage provides 60% of the heating; the second stage 40%.

Select from factory-installed options such as stainless steel heat exchanger, electric heating elements, supply and return air smoke detectors, disconnect switch, powered or non-powered GFI convenience outlet, single enthalpy economizer, power exhaust, high static drive blower motor, phase monitor, coil guard, and dirty filter switch.

Cooling capacity: 3 – 12 ½ tons

Rated up to 12.4 EER/80% SSE

Meets or exceeds ASHRAE 90.1 Energy Standards

Factory-packaged controls for easy set-up and programming

Foil-faced insulation for improved IAQ

Two compressors and independent refrigeration circuits ensure reliability*

Corrosion-resistant heat exchangers

Energy recovery ventilators (ERV) for optimized energy use and comfort

Variable frequency drives (VFD) for superior efficiency and precise control; available on two stage units only

**Two-stage cooling available on 6½–12½ ton models*

A MAP Gateway allows you to monitor and adjust system settings from a mobile device.

Faster, smarter start-up

The new integrated Smart Equipment Controls (SEC) from Johnson Controls will save you time and money during installation. This sophisticated, pre-packaged controls platform will also help deliver greater energy savings and reliability throughout the lifecycle of your rooftop unit.

To simplify start-up and configuration in the field, the SEC platform is installed at the factory and "arrives alive." An automatic Self Test Mode with a simple, local LED display allows you to configure, test, and view control information at installation. Plus, a Mobile Access Portal (MAP) Gateway lets you do all the commissioning, configuring and maintenance logs using a mobile device. Advanced, high-efficiency control has never been so convenient or easy.

With the SEC, you can take advantage of:

- Equipment protection, advanced direct digital and simple thermostat control
- A convenient USB interface that serves multiple purposes-history and trend data can be logged, and upgrades to the local or a remote controller can be installed
- Fault detection and diagnostics (FDD) with predictive failures assist with lifecycle management of the equipment,service awareness, and energy costs

The innovative SEC makes installation, start-up, and troubleshooting easier than ever.

You get total control with the following features that come either standard or factory/field installed. Talk with your Johnson Controls representative for details on which options are right for you.

Anti-short cycle delay: Prevents energy wasting due to frequent stop/start cycles with a 5-minute delay

Gas monitor: Ensures safe heat operation

365-day real time clock: Automatic daylight savings time adjustment keeps your unit running on schedule year round

Occupancy schedule: Allows for two different occupied schedules per day, seven days a week

20 holiday schedules: Covers up to 99 days per schedule, each with flexible start times

Low and high ambient lockout: Prevents cooling below or heating above a programmable setpoint of outside air temperature

Multiple zones: Adjusts for constant- or variable-air volume per zone

Energy-saving economizer operation: Allows you to select setpoints for outside and/or supply air temperature, and small and/or large space cooling demand using either a dry bulb, outside enthalpy, or differential enthalpy

Demand-based ventilation control: Improves the quality of the air inside your facility with controls that detect CO_2

Dirty filter switch: Activates the fault light on the unit thermostat, indicating the filter needs attention

Temperature and humidity algorithm: Programmable limits control humidity by allowing the unit to offset the operating setpoint based on high humidity in the space (feature available only on models with "hot gas reheat.")

Comfort ventilation control: Tempers the ventilation air when heating or cooling is not required – saving energy

Space temperature alarm: Sounds an alarm if the temperature exceeds the programmable limits

Intelligent recovery: "Learns" how much runtime is required to bring the temperature to the desired setpoint before occupants arrive

SERIES 10 GAS/ELECTRIC ULTRA HIGH-EFFICIENCY SINGLE PACKAGED UNITS (J**ZJ)

Model Number	Net ARI Cooling MBH	EER	IEER (SEER)	Heating MBH Output	% SSE	LBS
JA3ZJN05	36	12.2	(15)	49	80	740
JA3ZJN07	36	12.2	(15)	65	80	740
JA3ZJN09	36	12.2	(15)	97	80	740
JA4ZJN05	48	12.2	(15)	49	80	762
JA4ZJN07	48	12.2	(15)	65	80	762
JA4ZJN09	48	12.2	(15)	97	80	762
JA5ZJN07	60	12.2	(15)	65	80	770
JA5ZJN09	60	12.2	(15)	97	80	770
JA5ZJN13	60	12.2	(15)	129	80	770
J06ZJN10	78	12.2	14.9	96	80	1030
J06ZJN15	78	12.2	14.9	144	80	1030
J07ZJN10	90	12.2	14.44	96	80	1081
J07ZJN15	90	12.2	14.44	144	80	1081
J08ZJN10	102	12.2	13.2	96	80	1060
J08ZJN15	102	12.2	13.2	144	80	1060
J10ZJN15	120	12.2	12.9	144	80	1070
J10ZJN20	120	12.2	12.9	192	80	1070
J12ZJN15	150	12.2	12.9	144	80	1280
J12ZJN20	150	12.2	12.9	192	80	1280

SERIES 10 COOLING ONLY & ELECTRIC/ELECTRIC ULTRA HIGH-EFFICIENCY SINGLE PACKAGED UNITS (J**ZJ)

Model Number	Net ARI Cooling MBH	EER	IEER (SEER)	Electric Heat	LBS
JA3ZJC/E	36	12.2	(15)	3, 6, 9, 15	740
JA4ZJC/E	48	12.2	(15)	6, 9, 15, 20	762
JA5ZJC/E	60	12.2	(15)	6, 9, 15, 20, 24	770
J06ZJC/E	78	12.2	14.9	9, 18, 24, 36	1030
J07ZJC/E	90	12.2	14.44	9, 18, 24, 36	1081
J08ZJC/E	102	12.2	13.2	9, 18, 24, 36	1060
J10ZJC/E	120	12.2	12.9	18, 24, 36, 54	1070
J12ZJC/E	150	12.2	12.9	18, 24, 36, 54	1280

JC models are cooling only with optional field installed electric heat.
Model JE includes factory installed electric heat

SERIES 10 COOLING ONLY & ELECTRIC/ELECTRIC MID-EFFICIENCY SINGLE PACKAGED UNITS (J**ZF)

Model Number	Net ARI Cooling MBH	EER	IEER	Electric Heat	LBS
J06ZFC/E	78	11.2	13	9, 18, 24, 36	860
J07ZFC/E	88	11.2	12.1	9, 18, 24, 36	880
J08ZFC/E	101	11.2	12.5	9, 18, 24, 36	1020
J10ZFC/E	120	11.2	12.5	18, 24, 36, 54	1060
J12ZFC/E	150	11.2	12.7	18, 24, 36, 54	1253

HC Models are cooling only with optional field installed electric heat.
Model HE includes factory installed electric heat

SERIES 10 GAS/ELECTRIC HIGH EFFICIENCY SINGLE PACKAGE UNITS W/HOT GAS REHEAT(J**ZR)

Model Number	Net ARI Cooling MBH	EER	IEER (SEER)	Heating MBH Output	% SSE	LBS
JA3ZRA/B05	35.5	12.2	(15)	49	81.5	957
JA3ZRA/B07	35.5	12.2	(15)	65	81	957
JA3ZRA/B09	35.5	12.2	(15)	97	81	957
JA3ZRN/S05	35.5	12.2	(15)	49	81.5	957
JA3ZRN/S07	35.5	12.2	(15)	65	81	957
JA3ZRN/S09	35.5	12.2	(15)	97	81	957
JA4ZRA/B05	47.5	12.2	(15)	49	81.5	970
JA4ZRA/B07	47.5	12.2	(15)	65	81	970
JA4ZRA/B09	47.5	12.2	(15)	97	81	970
JA4ZRN/S05	47.5	12.2	(15)	49	81.5	970
JA4ZRN/S07	47.5	12.2	(15)	65	81	970
JA4ZRN/S09	47.5	12.2	(15)	97	81	970
JA5ZRA/B07	60	12.2	(14.7)	65	81	970
JA5ZRA/B09	60	12.2	(14.7)	97	81	970
JA5ZRA/B13	60	12.2	(14.7)	129	80.5	970
JA5ZRN/S07	60	12.2	(14.7)	65	81	970
JA5ZRN/S09	60	12.2	(14.7)	97	81	970
JA5ZRN/S13	60	12.2	(14.7)	129	80.5	970

A=1 stage heat · N=2 stage heat · B= 1 stage heat with stainless steel heat exchanger
S= 2 stage with stainless steel heat exchanger

J06ZRN/S10	78	11.2	13	96	80	860
J06ZRN/S15	78	11.2	13	144	80	860
J07ZRN/S10	88	11.2	11.5	96	80	880
J07ZRN/S15	88	11.2	11.5	144	80	880
J08ZRN/S10	101	11.2	12.3	96	80	1020
J08ZRN/S15	101	11.2	12.3	144	80	1020
J10ZRN/S15	120	11.2	11.5	144	80	1060
J10ZRN/S20	120	11.2	11.5	192	80	1060
J12ZRN/S15	150	11.2	11.1	144	80	1253
J12ZRN/S20	150	11.2	11.1	192	80	1253

N=2 stage heat · S=stainless steel heat exchanger 2 stage

SERIES 10 COOLING ONLY & ELECTRIC/ELECTRIC HIGH-EFFICIENCY SINGLE PACKAGED UNITS (J**ZH)

Model Number	Net ARI Cooling MBH	EER	IEER (SEER)	Electric Heat	LBS
JA3ZHC/E	36	11.8	(14)	3, 6, 9, 15	723
JA4ZHC/E	48	11.8	(14)	6, 9, 15, 20	763
JA5ZHC/E	60	11.8	(14)	6, 9, 15, 20, 24	772
J06ZHC/E	78	11.7	13.6	9, 18, 24, 36	910
J07ZHC/E	90	11.7	13.1	9, 18, 24, 36	910
J08ZHC/E	102	11.7	13	9, 18, 24, 36	1060
J10ZHC/E	120	11.7	12.6	18, 24, 36, 54	1090
J12ZHC/E	150	11.7	14.1	18, 24, 36, 54	1215

HC models are cooling only with optional field installed electric heat.
Model HE includes factory installed electric heat

SERIES 10 GAS/ELECTRIC HIGH-EFFICIENCY SINGLE PACKAGED UNITS (J**ZH)

Model Number	Net ARI Cooling MBH	EER	IEER (SEER)	Heating MBH Output	% SSE	LBS
JA3ZHA05	36	11.8	(14)	49	80	740
JA3ZHA07	36	11.8	(14)	65	80	740
JA3ZHA09	36	11.8	(14)	97	80	740
JA4ZHA05	48	11.8	(14)	49	80	762
JA4ZHA07	48	11.8	(14)	65	80	762
JA4ZHA09	48	11.8	(14)	97	80	762
JA5ZHA07	60	11.8	(14)	65	80	770
JA5ZHA09	60	11.8	(14)	97	80	770
JA5ZHA13	60	11.8	(14)	129	80	770
J06ZHN10	78	11.7	13.6	96	80	1030
J06ZHN15	78	11.7	13.6	144	80	1030
J07ZHN10	90	11.7	13.1	96	80	1081
J07ZHN15	90	11.7	13.1	144	80	1081
J08ZHN10	102	11.7	13	96	80	1060
J08ZHN15	102	11.7	13	144	80	1060
J10ZHN15	120	11.7	12.6	144	80	1070
J10ZHN20	120	11.7	12.6	192	80	1070
J15ZHN15	150	11.7	14.1	144	80	1280
J15ZHN20	150	11.7	14.1	192	80	1280

SERIES 10 COOLING ONLY & ELECTRIC/ELECTRIC HIGH EFFICIENCY SINGLE PACKAGE UNITS W/HOT GAS REHEAT (J**ZR)

Model Number	Net ARI Cooling MBH	EER	IEER (SEER)	Electric Heat	LBS
JA3ZRC00	36	12.2	(15)	3, 6, 9, 15	740
JA4ZRC00	48	12.2	(15)	6, 9, 15, 20	762
JA5ZRC00	60	12.2	(15)	6, 9, 15, 20, 24	770
J06ZRC00	78	12.2	13	9, 18, 24, 36	1030
J07ZRC00	88	11.2	12.1	9, 18, 24, 36	1081
J08ZRC00	102	11.2	12.5	9, 18, 24, 36	1060
J10ZRC00	120	11.2	12.5	18, 24, 36, 54	1070
J12ZRC00	150	11.2	12.7	18, 24, 36, 54	1280

RC models are cooling only with optional field installed electric heat.
Model RE includes factory installed electric heat

SERIES 10 HIGH EFFICIENCY SINGLE PACKAGED UNIT HEAT PUMPS (XP)

Model Number	Net ARI Cooling MBH	EER	IPLV	Heating MBH Output	COP	Electric Heat	LBS
J06XPC/E	78	11	12.4	78	3.5	9, 18, 24, 36	920
J07XPC/E	90	11	12.4	90	3.3	9, 18, 24, 36	920
J08XPC/E	100	11	12.4	94	3.5	9, 18, 24, 36	1135
J10XPC/E	118	11	12.4	110	3.5	9, 18, 24, 36, 54	1135
J12XPC/E	150	11	11.9	144	3.2	9, 18, 24, 36, 54	1400

PC models are cooling only with optional field installed electric heat.
Model PE includes factory installed electric heat
Heating output is heat pump net capacity at 47 F.

For more information please visit us at www.johnsoncontrols.com/rooftop

SERIES 10 GAS/ELECTRIC MID-EFFICIENCY SINGLE PACKAGED UNITS (J**ZF)

Model Number	Net ARI Cooling MBH	EER	IEER	Heating MBH Output	% SSE	LBS
J06ZFN10	78	11.2	13	96	80	860
J06ZFN15	78	11.2	13	144	80	860
J07ZFN10	88	11.2	12.1	96	80	880
J07ZFN15	88	11.2	12.1	144	80	880
J08ZFN10	101	11.2	12.5	96	80	1020
J08ZFN15	101	11.2	12.5	144	80	1020
J10ZFN15	120	11.2	12.5	144	80	1060
J10ZFN20	120	11.2	12.5	192	80	1060
J12ZFN15	150	11.2	12.7	144	80	1253
J12ZFN20	150	11.2	12.7	192	80	1253

HIGHEST EFFICIENCY IN THE INDUSTRY

PREDATOR® 3-5 TON ULTRA HIGH EFFICIENCY GAS/ELECTRIC PACKAGED UNIT

Model Number	COOLING MBH	SEER	EER	LBS
JA3ZTC00	39	18.1	14.15	922
JA4ZTC00	54	18.0	14.35	960
JA5ZTC00	66	17.5	13.85	968

Meets ENERGY STAR® efficiencies

Model Number	COOLING MBH	SEER	EER	ELECTRIC HEAT (kW)	LBS
JA3ZTE03	39	18.1	14.15	3	971
JA3ZTE06	39	18.1	14.15	6	971
JA3ZTE08	39	18.1	14.15	9	971
JA3ZTE15	39	18.1	14.15	15	971
JA4ZTE06	54	18.0	14.35	6	1009
JA4ZTE08	54	18.0	14.35	9	1009
JA4ZTE15	54	18.0	14.35	15	1009
JA4ZTE20	54	18.0	14.35	20	1009
JA5ZTE06	66	17.5	13.85	6	1017
JA5ZTE08	66	17.5	13.85	9	1017
JA5ZTE15	66	17.5	13.85	15	1017
JA5ZTE20	66	17.5	13.85	20	1017
JA5ZTE23	66	17.5	13.85	24	1017

ASHRAE 90.1-2010 Compliant
ASHRAE 189.1 Compliant
Single zone VAV requirement – LEED Credit 1

Model Number	COOLING MBH	SEER	EER	"HEATING MBH INPUT"	% SSE	LBS
JA3ZTN/A05	39	18.1	14.15	60	81.5	1032
JA3ZTN/A07	39	18.1	14.15	80	81.0	1032
JA3ZTN/A09	39	18.1	14.15	120	81	1032
JA4ZTN/A05	54	18.0	14.35	60	81.5	1070
JA4ZTN/A07	54	18.0	14.35	80	81.0	1070
JA4ZTN/A09	54	18.0	14.35	120	81.0	1070
JA5ZTN/A07	66	17.5	13.85	80	81.0	1078
JA5ZTN/A09	66	17.5	13.85	120	81.0	1078
JA5ZTN/A13	66	17.5	13.85	160	80.5	1078

Note: Gas/electric models with an "A" designator are single stage heating.
Gas/electric models with an "N" designator are two stage heating.

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