

# ALLIED COMMERCIAL PACKAGED ROOFTOP UNITS

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*This section contains product information only. For Technical Information see vendor website.*  
For availability and product pricing please contact your local ECCO Supply™ Sales Representative.

**Expert Service. Quality Products. Since 1960.**

# ALLIED COMMERCIAL PACKAGED ROOFTOP UNITS

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## K-SERIES™ INTRODUCTION

- Engineered for installation flexibility, energy-efficient performance and easy serviceability
- Gas/electric ranging in sizes from 2 to 25 tons
- Standard- and high-efficiency units available
- More than 100 field-selectable options to ensure it meets specific applications
- Up to 14.0 SEER, 14.0 IEER and 12.7 EER

### Options for optimal efficiency

K-Series units are available in two configurations — standard- and high-efficiency. Either unit can also be made up to 27% more efficient with the addition of an optional, Single-Zone VAV (Variable Air Volume) supply fan.

### Quick and easy to install and service

The K-Series has several features designed to reduce both installation and service time:

- Isolated compressor for fast, accurate charge confirmation
- Slide-out blower for quick and easy cleaning, belt adjustment and parts replacement
- Easy-to-reach gas compartment for quick and easy analysis and service

## OPTIONS AND ACCESSORIES

### Field-installed accessories

K-Series units include convenient features like plug connections for wiring, panel knock-outs and pre-installed accessory framing. Accessories can be quickly installed on stock units, providing immediate relief when needed.

- Field-powered GFI
- Disconnects
- Economizers with single or dual enthalpy control
- Electric heat
- 50% constant-volume power exhaust fan
- CO<sub>2</sub> sensor
- Return and supply air smoke detectors
- Low ambient kits
- Hail guards
- Coil guards
- LPG conversion kit (gas/electric only)
- -40°F cold weather kit (gas/electric only)
- Combustion air intake and flue exhaust extensions (gas/electric only)
- Blower proving switch
- Dirty filter switch
- Manual outdoor air dampers (25%)
- Motorized outdoor air dampers



### Factory-installed options for fast installation

For quick, built-to-order solutions, K-Series units can be built and tested at the factory to exact specifications with these options:

- Single-zone VAV (Variable Air Volume) supply fan option
- Coil corrosion protection
- Stainless steel heat exchanger
- Hinged doors

### Factory options or field accessories

For maximum time and cost flexibility, choose to have these options installed in the field or at the factory.

- Economizers
- Barometric relief dampers
- High- and low-static drive kits
- Heaters (gas/electric only)
- BACnet module

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## K-SERIES™ (cont'd)

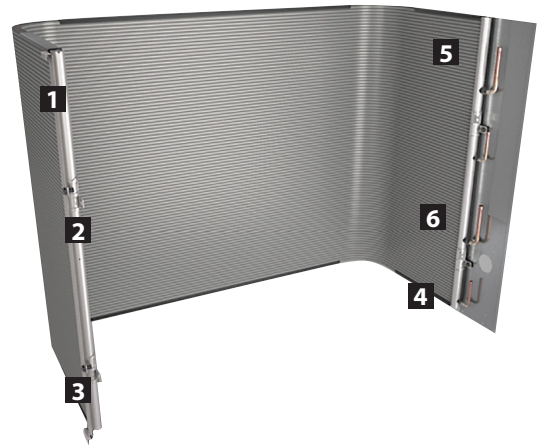
### BACNET BUILDING AUTOMATION SYSTEMS

All K-Series units can now be integrated with BACnet, an industry-leading building automation platform. Either factory- or field-installed, the BACnet module allows remote monitoring and adjusting of a building's heating and cooling. Digital sensors are fully programmable, providing precise monitoring and control, while optional password protection prevents unwanted temperature adjustments.



### THE ECO-LAST™ COIL

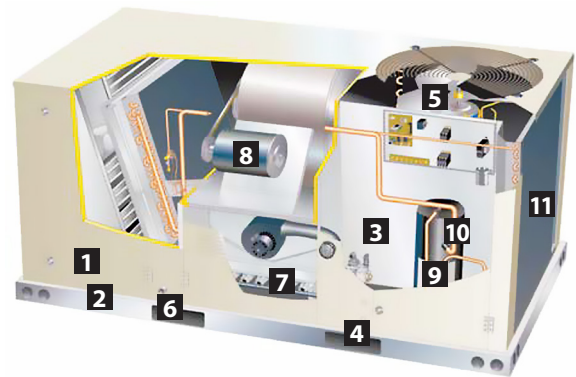
- All-Aluminum Coil** By using a series of channels, the Eco-Last Coil System provides a higher primary surface area than traditional round tubes, resulting in up to 52% less refrigerant required to achieve the same level of heat transfer.
- Coil Mounting Isolators** Rubber inserts help to reduce vibration. Plus, the isolators prevent corrosion by separating the coil from the rest of the unit and eliminating metal-to-metal contact.
- Sheet Metal Isolators** Sheet metal isolators are placed along the top, bottom and sides of the coil and unit where needed, to further reduce points of potential corrosion.
- Coil Stabilizers** Securing the coil in place helps prevent movement during shipping to avoid damage.
- Over-Core Reinforcements** For added protection, over-core reinforcements on the top and bottom of coil are twice as thick as internal tubes and do not circulate refrigerant.



- Brazed Joints** The Eco-Last coil uses up to 20% fewer brazed joints than tube-and-fin coils, reducing the potential for leakage.

### COMPONENTS

- Hinged Access Panels** factory option provides quick access to components and protects panels and roof from damage during servicing.
- Full-Perimeter Base Rail (with Rigging Holes)** provides greater structural integrity, so the unit is easier to handle when rigging and transporting.
- Isolated Compressor Compartment** allows performance check during normal compressor operation without disrupting airflow.
- Fork Slots on Three Sides** easy to pick up and transport units from almost any angle.
- Independent Motor Mount** allows for easy and efficient service access without removing the top panel.
- Corrosion-Resistant, Removable Drain Pan** provides application flexibility, durability and improved serviceability. Bottom drain capability also standard.
- Large Burner Compartment** designed for serviceability, the contractor-facing gas components allow for fast routine maintenance and diagnostics.
- Predefined Supply Fan Motor/Drive Combinations** make selecting components to meet static and airflow requirements quick and easy.



- Scroll Compressor** standard on all units for reliable long-term operation.
- High-Pressure Switch** improves reliability by safeguarding compressor from extreme operating conditions.
- Eco-Last™ Coil System** uses up to 52% less refrigerant, is up to 59% lighter and has up to 20% fewer brazed joints than typical units (standard on all 7.5- to 12.5-ton gas/electric models); heat pump models use tube and fin coils).

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## K-SERIES™ (cont'd)

### PERFORMANCE SPECIFICATIONS

#### High Efficiency Gas/Electric Units

NOM. TON	MODEL	COOLING		HEATING INPUT			H x W x L (")	SHIP WT (LBS)
		EER	SEER OR IEER	STD	MED	HIGH		
7.5	KGA092H4B/M	12.5	13.0/14.0	130,000	180,000	240,000	47 x 61 x 102	1,154
8.5	KGA102H4B/M	12.2	12.9/14.0	130,000	180,000	240,000	47 x 61 x 102	1,174
10	KGA120H4B/M	12.0	13.0/13.8	130,000	180,000	240,000	47 x 61 x 102	1,222
13	KGA156H4B/M	12.0	13.6/14.1	260,000	360,000	—	55 x 91 x 108	2,135
15	KGA180H4B/M	12.0	13.5/13.7	260,000	360,000	480,000	55 x 61 x 133	2,315
17.5	KGA210H4B/M	12.0	13.0/14.0	260,000	360,000	480,000	55 x 61 x 133	2,440
20	KGA240H4B/M	12.0	13.2/14.5	260,000	360,000	480,000	55 x 61 x 133	2,525
25	KGA300H4B/M	10.5	10.9/13.8	260,000	360,000	480,000	55 x 61 x 133	2,630

#### Standard Efficiency Gas/Electric Units

NOM. TON	MODEL	COOLING		HEATING INPUT			H x W x L (")	SHIP WT (LBS)
		EER	SEER OR IEER	STD	MED	HIGH		
2	KGB024S4D	12.7	14.0	65,000	—	—	39 x 47 x 86	571
2.5	KGB030S4D	11.5	14.0	65,000	—	—	39 x 47 x 86	574
3	KGA036S4B/D	10.7	13.0	65,000	105,000	—	39 x 47 x 86	594
3	KGB036S4B/D	12.5	14.0	65,000	105,000	—	39 x 47 x 86	596
4	KGA048S4B/D	11.0	13.0	65,000	105,000	105,000	39 x 47 x 86	631
4	KGB048S4B/D	11.5	14.0	65,000	105,000	105,000	39 x 47 x 86	596
5	KGA060S4B/D	11.2	13.0	65,000	105,000	150,000	39 x 47 x 86	661
5	KGB060S4B/D	11.8	14.0	65,000	105,000	150,000	39 x 47 x 86	690
6	KGA072S4B	11.2	12.3	65,000	105,000	150,000	47 x 47 x 86	690
7.5	KGA090S4B	11.0	11.2	—	105,000	150,000	47 x 47 x 99	843
7.5	KGA092S4B/M	11.0	11.8/13.0	130,000	180,000	240,000	47 x 61 x 102	1,052
8.5	KGA102S4B/M	11.0	11.8/13.0	130,000	180,000	240,000	47 x 61 x 102	1,072
10	KGA120S4B/M	11.0	11.8/13.0	130,000	180,000	240,000	47 x 61 x 102	1,112
12.5	KGA150S4B/M	11.0	11.4/12.0	130,000	180,000	240,000	47 x 61 x 102	1,202
15	KGA180S4B/M	10.8	11.0/12.6	260,000	360,000	480,000	55 x 92 x 108	1,990
17.5	KGA210S4B/M	10.8	12.0/13.1	260,000	360,000	480,000	55 x 92 x 108	2,135
20	KGA240S4B/M	10.8	11.0/13.0	260,000	360,000	480,000	55 x 92 x 133	2,380
25	KGA300S4B/M	10.0	10.0/12.0	260,000	360,000	480,000	55 x 92 x 133	2,380

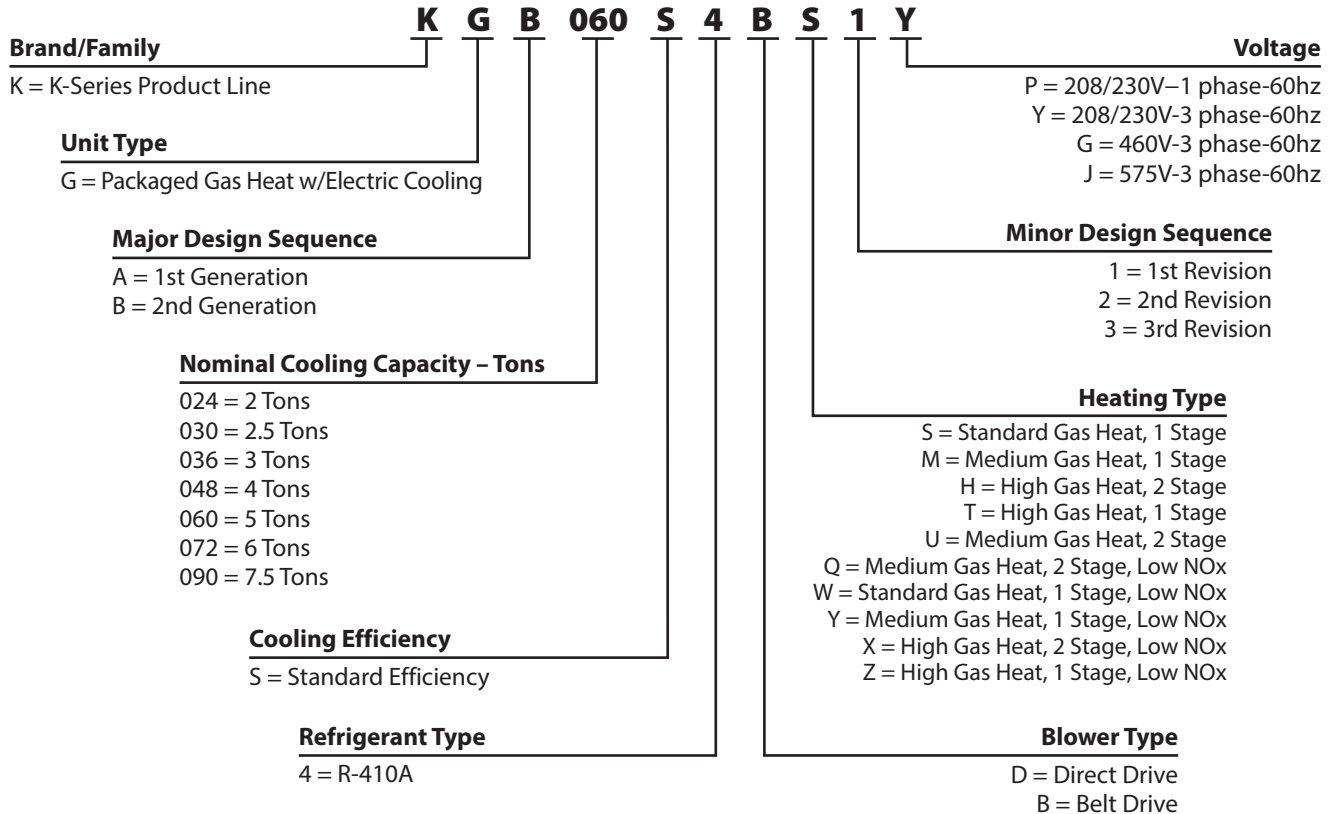
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## K-SERIES™ (cont'd)

### MODEL NUMBER IDENTIFICATION



## ALLIED COMMERCIAL PACKAGED ROOFTOP UNITS

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### Z-SERIES™

#### INTRODUCTION

- 3- to 12.5-ton gas/electric, electric/electric and 3- to 10-ton heat pump models available
- Exact charge is weighed in at the factory to ensure precise operation
- Up to 18% lighter than like units\*
- Compatible with popular curb size, eliminating need for adaptor curb
- Up to 14.0 SEER, up to 11.7 EER and up to 13.2 IEER

\*Comparison is based on a 5-ton gas/electric model versus other 5-ton gas/electric models



#### Right-fit compatibility

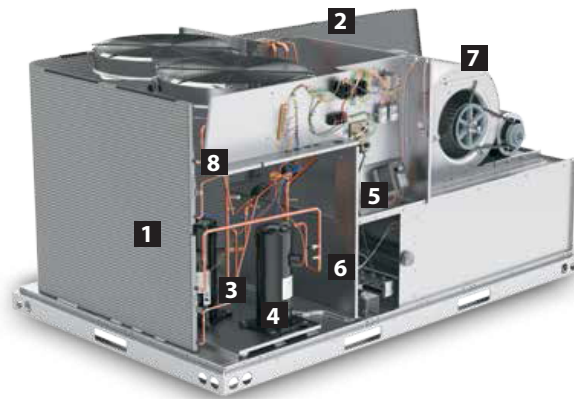
The Z-Series rooftop units feature the most popular footprint in the commercial industry, which eliminates the need for an adaptor curb in many replacement jobs, and allows installers to utilize existing utility connections.

#### COMPONENTS

1. **Eco-Last Coil System** uses up to 52% less refrigerant, is up to 59% lighter and has up to 20% fewer brazed joints than typical rooftop units.
2. **Tool-Less Filter Access** — Filter replacement is simplified during routine maintenance.
3. **High-Pressure Switch** improves reliability by safeguarding compressor from extreme operating conditions.
4. **Scroll Compressor** standard on all units for reliable long-term operation.
5. **Smart Technology** optional BACnet compatibility and Single-Zone VAV (Variable Air Volume) give the flexibility to meet application requirements.
6. **Burner Compartment** — Enclosed burner compartment provides protection from unwanted moisture that can lead to premature corrosion.
7. **Predefined Supply Fan Motor/Drive Combinations** make selecting components to meet static and airflow requirements quick and easy.

#### Factory tested. Field ready.

Z-Series rooftop units are constructed from proven materials, and undergo thorough component inspection, including a 200-point quality check and a rigorous run-testing regimen before leaving the factory. Units arrive at the job site having been charged to exact specifications in a clean, controlled environment. As a result, you can count on Z-Series rooftop units to provide years of solid, trouble-free operation.



8. **Power Entry** electrical connections align with many existing units.
9. **Unit Footprint** compatible with 20+ years of existing units, eliminating the cost of an adaptor curb in many replacement jobs.

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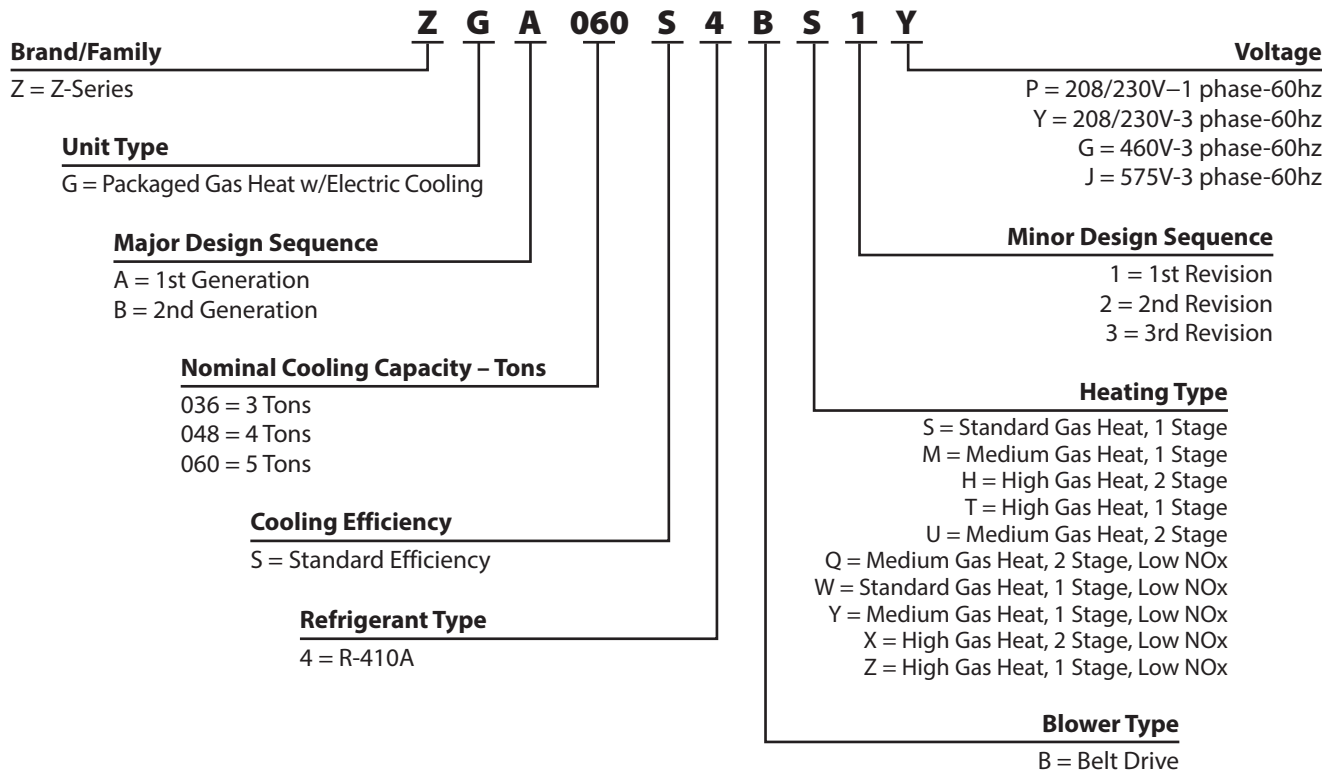
## Z-SERIES™ (cont'd)

### PERFORMANCE SPECIFICATIONS

#### Gas/Electric Units

TON	MODEL	COOLING		HEATING			H × W × L (")	SHIP WT (LBS)
		EER	SEER OR IEER	STD	MED	HIGH		
3	ZGA036S4B	11.5	13.0	65,000	108,000	–	37 × 47 × 76	489
3	ZGB036S4B	11.7	14.0	65,000	108,000	–	37 × 47 × 76	529
4	ZGA048S4B	10.6	13.0	65,000	108,000	150,000	37 × 47 × 76	503
4	ZGB048S4B	11.2	14.0	65,000	108,000	150,000	37 × 47 × 76	538
5	ZGA060S4B	10.7	13.0	65,000	108,000	150,000	37 × 47 × 76	535
5	ZGB060S4B	11.2	14.0	65,000	108,000	150,000	37 × 47 × 76	597
6	ZGA072S4B	11.2	12.0	65,000	108,000	150,000	37 × 47 × 76	645
7.5	ZGA092S4B/M	11.0	11.8/13.0	130,000	180,000	240,000	49 × 61 × 96	987
8.5	ZGA102S4B/M	11.0	11.8/13.0	130,000	180,000	240,000	49 × 61 × 96	1007
10	ZGA120S4B/M	11.0	11.8/13.0	130,000	180,000	240,000	49 × 61 × 96	1047
12.5	ZGA150S4B/M	10.8	11.4/12.0	130,000	180,000	240,000	49 × 61 × 96	1137

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