

Z-SERIES™

DESIGNED TO FIT. FAST.

2025 COMPLIANT REFRIGERANT
COMMERCIAL PACKAGED ROOFTOP UNITS
3- TO 12.5-TON ZC/ZG/ZH MODELS

UP TO 13.4 SEER2
15.5 IEER AND
UP TO 11.5 EER2



ALLIED™
Commercial

DESIGNED TO FIT. FAST.™

The Z-Series™ delivers both value and flexibility, with proven performance. Available in 3- to 12.5-ton gas/electric, electric/electric and up to 10-ton heat pump models, Z-Series rooftop units are compatible with many replacement jobs and fit one of today's most popular curb sizes. And best of all, it is available when you need it.

FOR A CLEANER TOMORROW

We believe building for tomorrow is as important as building for today. The transition to low Global Warming Potential (GWP) refrigerants represents a positive step for the environment, as it significantly reduces the impact of harmful greenhouse gases.

The new refrigerant used in our products reduces global warming potential by 78%*. That helps all of us reduce our environmental impact and build toward a cleaner future for everyone.

**Global, national, state, and local GWP requirements may change at any time without notice.*

Z-SERIES AT A GLANCE:

3- to 12.5-ton gas/electric, electric/electric and 3- to 10-ton heat pump models available

Save up to \$1,500 on replacement jobs*

Exact charge is weighed in at the factory to ensure precise operation

Lightweight design with Eco-Last™ coil system***

Compatible with popular curb size, eliminating need for adaptor curb

EFFICIENCY RATING

Up to 13.4 SEER, 15.5 IEER and up to 11.5 EER2

WARRANTY

10-YEAR LIMITED WARRANTY on aluminized gas heat exchanger

5-YEAR LIMITED WARRANTY on compressor

3-YEAR LIMITED WARRANTY on Eco-Last™ coil system

1-YEAR LIMITED WARRANTY on covered components

See warranty certificate for actual details.

RIGHT-NOW AVAILABILITY

Get the performance you want, when you need it. Allied Commercial™ partners with wholesale distributors throughout the U.S. and Canada, giving you the local support and availability you need.

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. This means easier installation and savings of up to \$1,500 on the total job cost.* In addition, the Z-Series units are lighter than other units in its class, which not only makes the units easier to lift and move, but also eliminates additional structural engineering costs.**

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.

To check availability near you, contact your local Allied Commercial distributor.



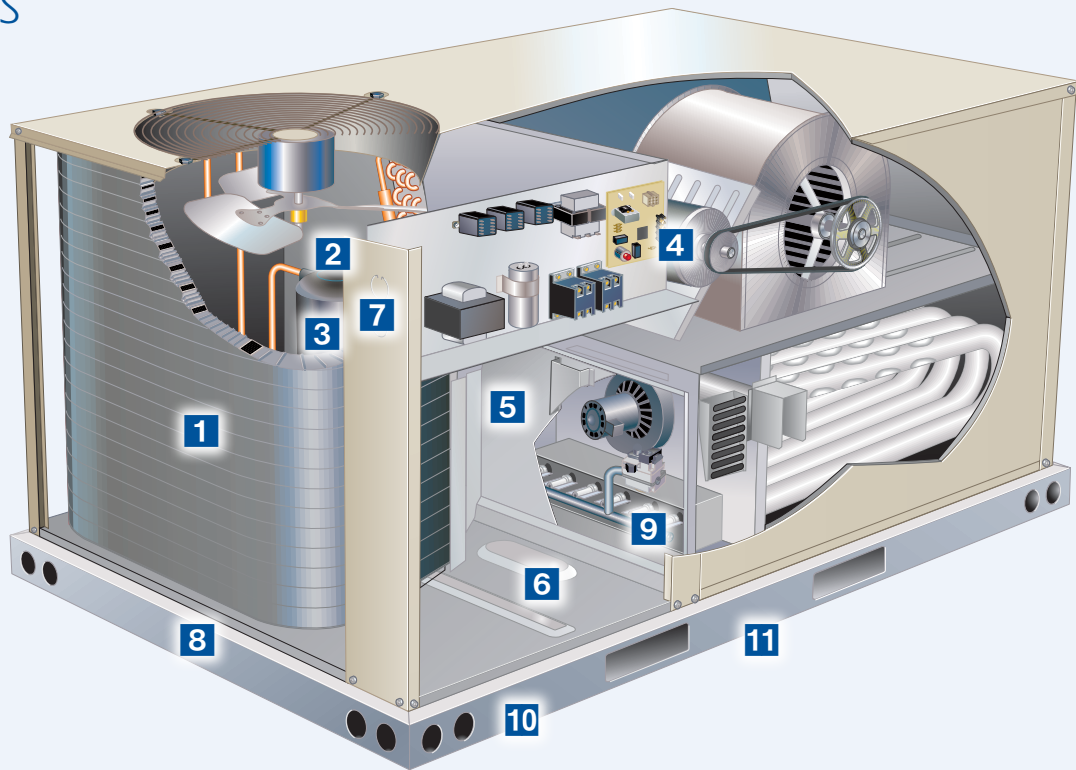
* \$1,500 savings is calculated in replacement jobs where the Z-Series unit matches the footprint, eliminating the use of an adaptor curb and moving electrical and plumbing connections.

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

*** Available on Gas/Electric and Electric/Electric models only.

† Quality checkpoints per unit are composed of inspections on each component, component verification technology, manufacturing line inspections and final unit testing.

Z-SERIES



PROVEN COMPONENTS BUILT FOR PERFORMANCE

- 1 ECO-LAST™ COIL SYSTEM**—Uses up to 52% less refrigerant and is up to 59% lighter than regular rooftop coils¹
- 2 HIGH-PRESSURE SWITCH**—Improves reliability by safeguarding compressor from extreme operating conditions.
- 3 SCROLL COMPRESSOR**—Standard on all units for reliable long-term operation.
- 4 SMART TECHNOLOGY**—Single-Zone VAV (Variable Air Volume) supply fan achieves a higher level of energy savings and comfort control with blower speed modulation. (standard on 6- to 12.5-ton models).
- 5 BURNER COMPARTMENT**—Enclosed burner compartment provides protection from unwanted moisture that can lead to premature corrosion and provides easy access to all gas components.
- 6 POWER ENTRY**—Electrical lines can be brought through the unit base or horizontal access knock-outs for easy installation.
- 7 ELECTRICAL CONNECTIONS**— Match existing connections on many popular units, making replacement easier.
- 8 UNIT FOOTPRINT**—Compatible with 20+ years of existing units, eliminating the cost of an adaptor curb in many replacement jobs.
- 9 ADDITIONAL GAS HEATING TUBES**— Allow lower temperatures per burn for increased reliability
- 10 FULL-PERIMETER BASE RAIL**— Provides structural integrity, making the unit easier to handle when rigging and transporting.
- 11 FORK SLOTS**— Located on three sides, make it easy to pick up and transport units from almost any angle.

Tool-less Filter Access (not shown)- Filter replacement is simplified during routine maintenance

Z-SERIES™ SPECIFICATIONS

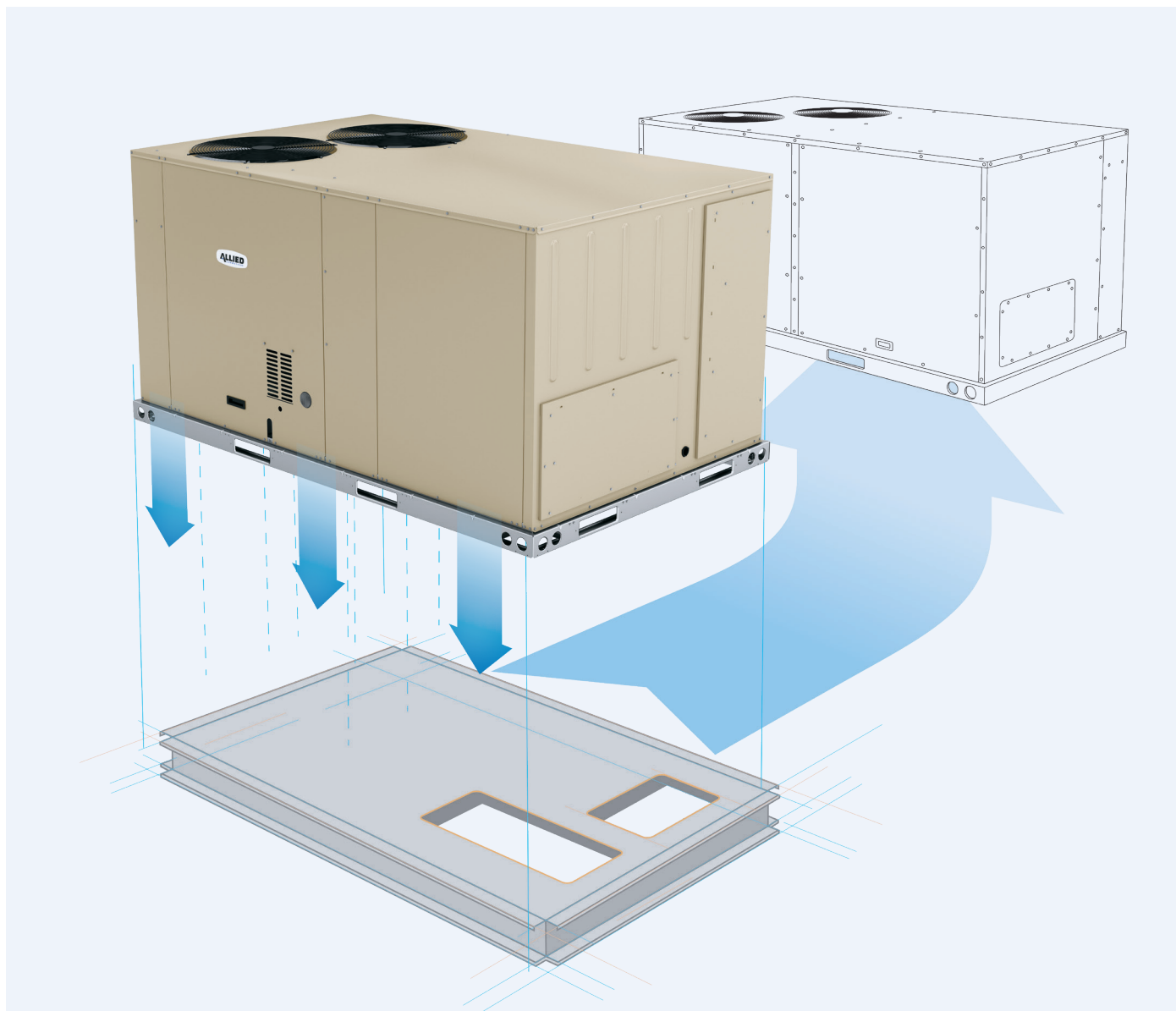
		COOLING DATA			HEATING INPUT					PHYSICAL DATA		
		NOM TON.	MODEL	EER2 / EER	SEER2 / IEER	STD.	MED.	HIGH	DIMENSIONS H X W X L [IN.]		SHIP WT. [LBS.]	
GAS/ELECTRIC UNITS	3	ZGD036S5B/E	11.5	13.4	65	108	-	37 x 48 x 76		487		
	4	ZGD048S5B/E	11.5	13.4	65	108	150	37 x 48 x 76		469		
	5	ZGD060S5B/E	11.5	13.4	65	108	150	45 x 48 x 76		555		
	6	ZGD074S5T	11.0	15.0	65	108	150	45 x 48 x 76		603		
	7.5	ZGD092S5T	11.0	15.0	130	180	240	49 x 61 x 96		841		
	8.5	ZGD102S5T	11.0	14.8	130	180	240	49 x 61 x 96		841		
	10	ZGD120S5M	11.0	15.0	130	180	240	49 x 61 x 96		881		
	12.5	ZGD150S5M	10.8	15.0	130	180	240	49 x 61 x 96		971		
					KW RANGE*							
ELECTRIC/ELECTRIC UNITS	3	ZCD036S5B	11.5	13.4	5	7.5	10	15	-	37 x 48 x 76		437
	4	ZCD048S5B	11.5	13.4	5	7.5	10	15	22.5	37 x 48 x 76		446
	5	ZCD060S5B	11.5	13.4	5	7.5	10	15	22.5	45 x 48 x 76		531
	6	ZCD074S5T	11.2	15.5	7.5	10	15	22.5	30	45 x 48 x 76		531
	7.5	ZCD092S5T	11.2	15.0	7.5	15	22.5	30	45	49 x 61 x 96		793
	8.5	ZCD102S5T	11.2	14.8	7.5	15	22.5	30	45	49 x 61 x 96		793
	10	ZCD120S5M	11.2	15.0	15	22.5	30	45	60	49 x 61 x 96		833
	12.5	ZCD150S5M	11.0	15.0	15	22.5	30	45	60	49 x 61 x 96		923
					HSPF (HSPF2*)	47 CAP.	COP 47	17 CAP	COP 17			
HEAT PUMP UNITS	3	ZHD036S5B	10.6	13.4	8.0 (6.7)	34,200	3.4	20,000	2.2	45 x 48 x 76		580
	4	ZHD048S5B	10.6	13.4	8.0 (6.7)	45,000	3.3	26,1000	2.2	45 x 48 x 76		585
	5	ZHD060S5B	10.6	13.4	8.0 (6.7)	55,000	3.5	32,500	2.25	45 x 48 x 76		610
	7.5	ZHD092S5T	11.0	14.1	-	89,000	3.4	53,000	2.25	49 x 61 x 96		1,068
	8.5	ZHD102S5T	11.0	14.1	-	100,000	3.4	55,000	2.25	49 x 61 x 96		1,068
	10	ZHD120S5M	11.0	14.1	-	116,000	3.4	70,000	2.25	49 x 61 x 96		1,126

NOTE: Due to Allied Commercial's ongoing commitment to quality, all specifications, ratings and dimensions are subject to change.

*Single phase equipment only

THE ALLIED COMMERCIAL™ Z-SERIES™ SAVES TIME AND MONEY ON EVERY INSTALL. AND THAT'S JUST THE BEGINNING.

When we set out to build the Z-Series, we had a few simple goals in mind. It had to be compatible with the most popular curb sizes in the industry. It had to be easy to install, with matching utility connections. And it had to live up to the Allied Commercial reputation for quality. Take a closer look at the design and you'll see why the Z-Series has exceeded our expectations.



The footprint that fits.

Few things can affect the time, effort and money involved in a job like curb compatibility. When a rooftop unit can install without replacing the adapter curb, and when utility connections don't have to be rerouted, the savings add up. And best of all, the lack of an adapter curb not only saves customers an average of \$1,500 in installation costs,* it also makes contractors more competitive in the bidding process.

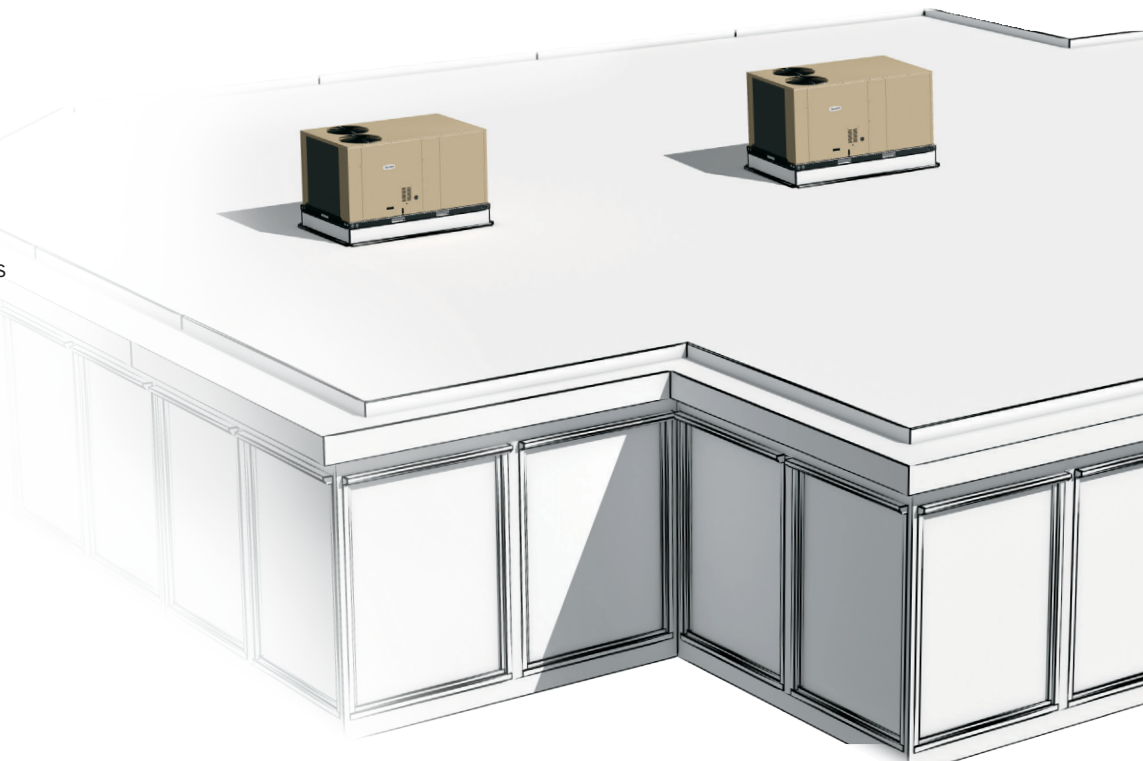
*\$1,500 savings is calculated in replacement jobs where the Z-Series unit matches the footprint using a price of \$750 for a curb and \$750 to move electrical and plumbing connections.

SMART TECHNOLOGY ENHANCES CONTROL, COMMUNICATION AND EFFICIENCY.

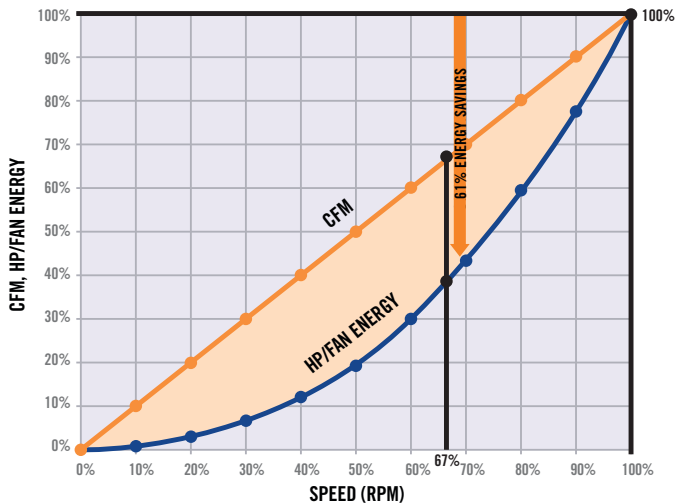
BACnet compatibility (7.5- to 12.5-ton)

The Allied Commercial Z-Series integrates perfectly into your automation system and control system with full BACnet compatibility. Available as a field-installed option, Allied Commercial's BACnet module is BACnet Testing Laboratory certified for seamless integration, whether it's new construction or replacement jobs.

Optional sensors increase functionality, and are available as simple wall-mounted sensors or fully programmable digital sensors that offer precise monitoring and simplified configuration. An optional discharge air sensor is also available to aid in monitoring and diagnostics.



VAV Blower Fan Curve



Single-Zone Vav™ (7.5- to 12.5-ton)

Savings on both energy and cost

Allied Commercial's Single-Zone VAV (Variable Air Volume) technology uses smart design to offer proven savings with every Z-Series packaged rooftop unit. By carefully coordinating fan speed with cooling demand, Single-Zone VAV reduces ownership costs by using up to 61% less energy than conventional packaged units.

Single-Zone VAV operates in two stages

- In the first stage, which is the most efficient, only one of the two refrigerant circuits is active, and the fan runs at 67% of its full capacity.
- In the second, more powerful stage, both refrigerant circuits are activated and the fan runs at full speed.

By alternating between these two stages based on cooling demand, Single-Zone VAV saves money and equipment wear over time.



Visit us at www.allied-commercial.com or contact us at 1-800-448-5872.

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ACZS-300 01/25 PC84339