

# K-SERIES™

2025 COMPLIANT REFRIGERANT  
COMMERCIAL PACKAGED ROOFTOP UNITS  
2- TO 25-TON KG/KC/KH MODELS

UP TO 13.4 SEER2,  
15.0 IEER AND 11.6 EER



NOW WITH

 **Intelli-Guide™**

**ALLIED™**  
Commercial



# PRECISE. VERSATILE. SOLID.

K-Series™ rooftop units are known for precise, dependable performance. Thanks to advanced features and thoughtful product designs, the K-Series is flexible, too, making it an excellent choice for virtually any commercial application.

## 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.*

### K-SERIES AT A GLANCE:

Engineered for installation flexibility, energy-efficient performance and easy serviceability

Gas/electric and electric/electric units ranging in sizes from 2 to 25 tons and heat pump units ranging in sizes from 2 to 20 tons

Optional reheat dehumidification system

### EFFICIENCY RATING

Up to 14.0 SEER2, 15.5 IEER, and 11.5 EER2

### WARRANTY

15-YEAR LIMITED WARRANTY  
on stainless steel gas heat exchanger

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.

## OPTIONS FOR OPTIMAL EFFICIENCY

Using Single Zone VAV (variable air volume) supply fan technology, K-Series optimizes system performance by staging airflow to provide year-round comfort and power savings of up to 61% over traditional blower systems.

**The Intelli-Guide™ unit controller** openly integrates with multiple control types, extends unit lifetime by reliably operating system components, and optimizes unit efficiency through built-in algorithms, creating ideal space conditions with ease.

## 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.

## THE LOGISTICAL CHOICE FOR QUICK DELIVERY

The K-Series is versatile and efficient when it comes to shipment, too. Allied Commercial has wholesale distributor partners throughout the U.S. and Canada, which gives you fast, local access to K-Series equipment. So you get the performance you need, when you need it.

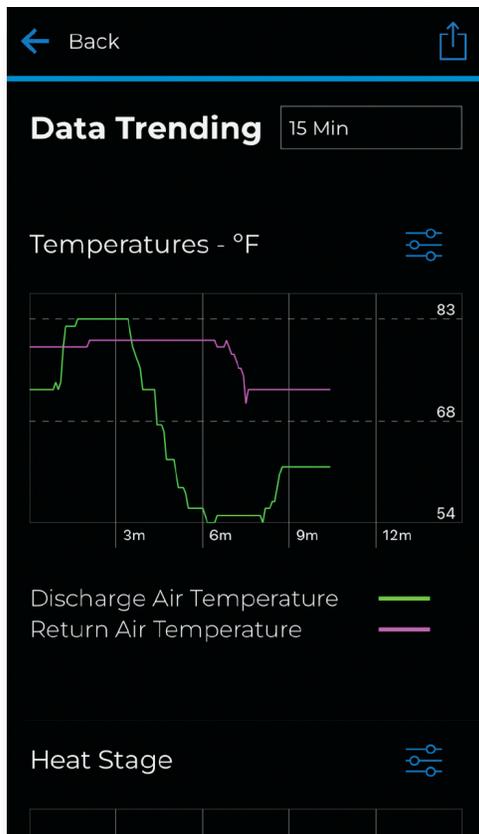
[To check availability near you, contact your local Allied Commercial distributor.](#)



# THE ALLIED COMMERCIAL INTELLI-GUIDE™ SERVICE APP

## MAKES SERVICING SIMPLE

The Intelli-Guide™ Service App replaces a traditional built-in user interface on the Intelli-Guide™ Unit Controllers and provides guided setup means for install, test and balance, and network integration. Reports that detail runtimes and service history can be exported from the app. The app also facilitates seamless commissioning of wireless sensors and sensor networks compatible with the Intelli-Guide™ Control System.



### REAL-TIME DATA READOUTS

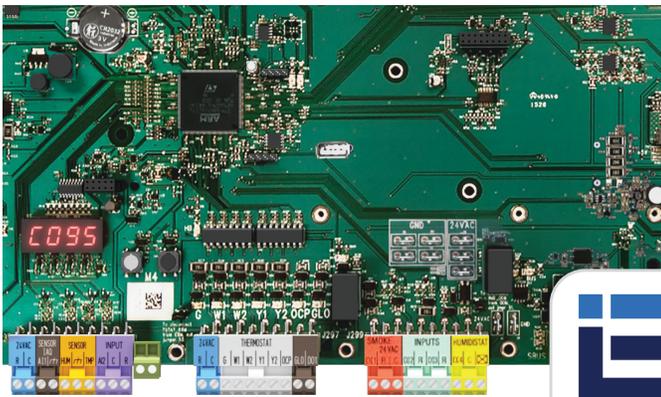
Enhanced test functionality provides real-time sensor readings, trending and reports that enable easy troubleshooting.



# ALLIED COMMERCIAL INTELLI-GUIDE™ UNIT CONTROLLER

## Intelli-Guide™

The Allied Air Intelli-Guide™ Control System on K-Series™ rooftop units is comprised of the easy-to-use Allied Commercial Intelli-Guide™ Unit Controller and the intuitive Intelli-Guide™ Service App.



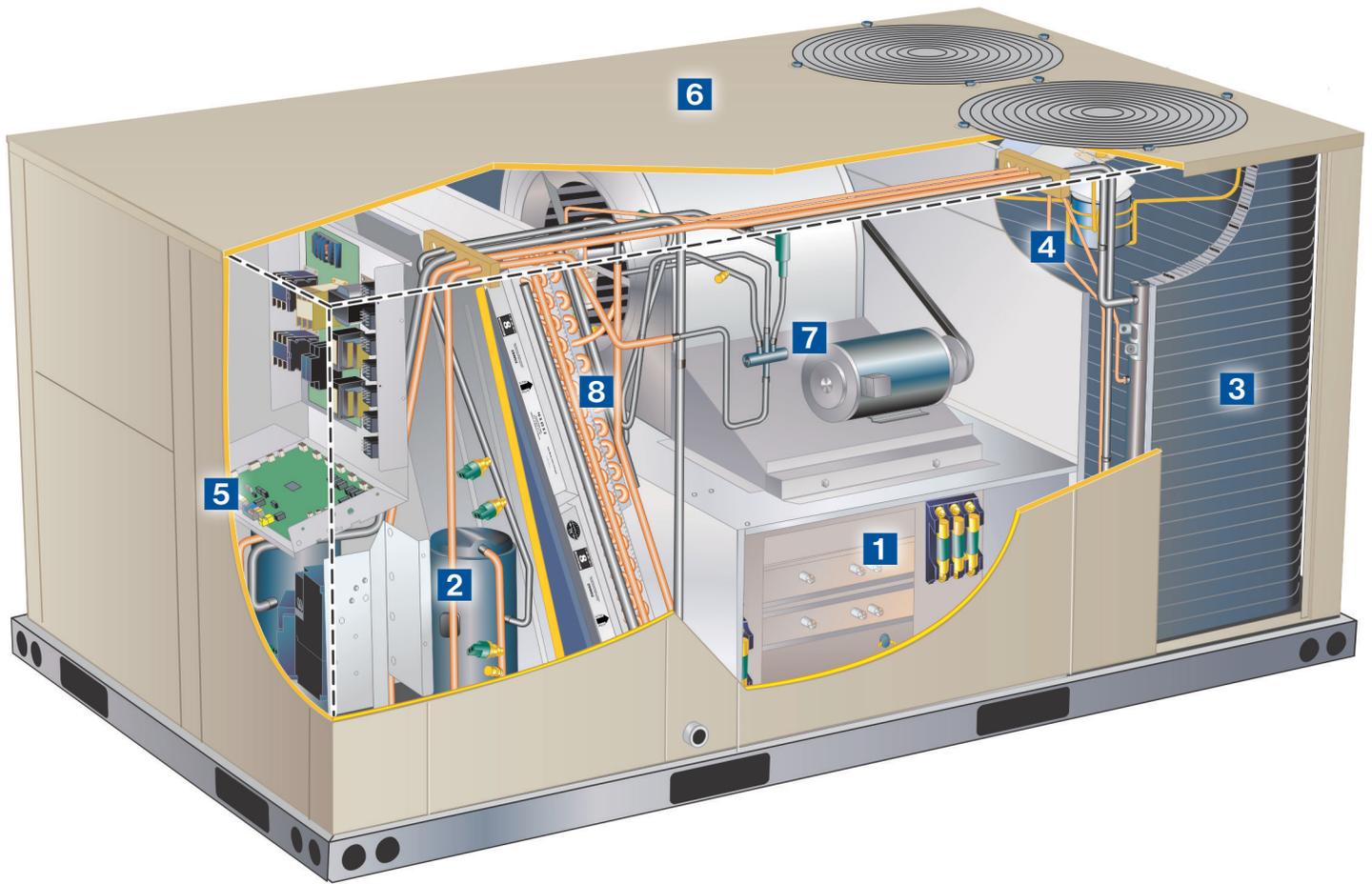
### **The Intelli-Guide™ Unit Controller**

openly integrates with multiple control types, extends unit lifetime by reliably operating system components, and optimizes unit efficiency through built-in algorithms, creating ideal space conditions with ease.

**The Intelli-Guide™ Service App** provides a better installation and service experience through intuitive guided setup, simplified troubleshooting with, and advanced diagnostic capabilities, reducing installation and service costs.



AVAILABLE ON  
**K-SERIES™**



**1 HEAT EXCHANGER/INSHOT BURNERS (NOT PICTURED)** – This heating system contains aluminized steel inshot burners, direct spark ignition, electronic flame sensor and combustion air inducer.

**2 SCROLL COMPRESSOR** – Standard on all units for reliable long-term operation.

**3 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 and electric/electric models; heat pump models use tube and fin coils).

**4 OUTDOOR COIL FAN MOTORS** – Field installed option low ambient control kit provides reduced outdoor fan operation during low ambient conditions.

**5 INTELLI-GUIDE CONTROLLER** – Building Management Integration through standard network protocols such as BACnet and LonWorks\* allows custom monitoring and control while maintaining backwards compatibility with legacy systems

**6 HEAVY GAUGE STEEL CABINET** – Provides greater structural integrity that includes a full perimeter steel base rail with rigging holes and three sides of forklift slots for transporting.

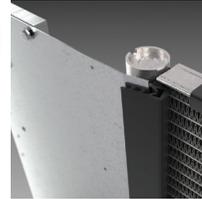
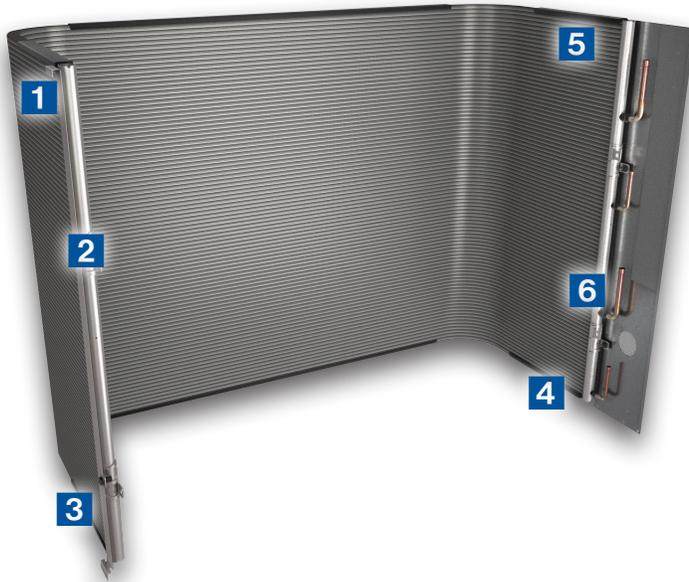
**7 SINGLE ZONE VAVBLOWER** – Stages the amount of airflow according to compressor stages, heating demand and ventilation demand.

**8 AIR FILTERS** – Disposable 2 inch MERV 4 filters are furnished standard with optional field installed high efficiency MERV 8, 13 or 16 air filters available.

# ADVANCED TECHNOLOGY, ADVANCED EQUIPMENT

The technologies built into the K-Series™ units help businesses enjoy lasting performance and consistent energy efficiency, season after season.

## THE ECO-LAST™ COIL. DEPENDABLE BY DESIGN. PERFORMANCE THAT LASTS.



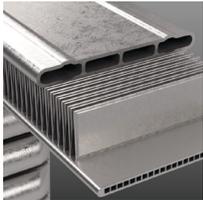
### 3 SHEET METAL ISOLATORS—

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.



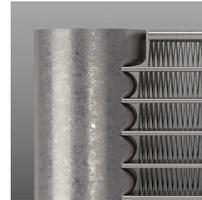
### 4 COIL STABILIZERS—

Securing the coil in place helps prevent movement during shipping to avoid damage.



### 1 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.



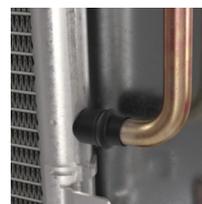
### 5 OVER-CORE REINFORCEMENTS—

For added protection, over-core reinforcements on the top and bottom of the coil are twice as thick as internal tubes and do not circulate refrigerant.



### 2 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.



### 6 BRAZED JOINTS—

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



## CONNECT TO NEW OR EXISTING 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.

# K-SERIES™ ROOFTOP UNIT OPTIONS & ACCESSORIES

	K-SERIES™
<b>COOLING</b>	
Drain Pan Overflow Switch	Field
Dirty Filter Switch	Field
Low-Ambient Kit (Down to 0°F)	Field
PVC or Copper Condensate Drain Trap	Field
<b>BLOWER</b>	
Blower - Supply Air Motors and Drive Kits	Factory
Blower Proving Switch	Standard
VFD Manual Bypass Kit (SZVAV)	Field
<b>HEATING</b>	
Electric Heat	Field
Gas Heat	Factory
Stainless Steel Heat Exchanger	Factory
Bottom Gas Piping Kit	Field
Combustion Air Intake Extensions	Field
Low Temperature Vestibule Heater	Field
LPG/Propane Conversion Kits	Field
Vertical Vent Extension	Field
<b>CABINET</b>	
Combination Coil/Hail Guards (7.5-25 ton)	Factory, Field
Hinged Access Panels	Factory
Horizontal Discharge Kit	Field
Return Air Adaptor Plate***	Field
Corrosion Protection (Indoor coil/Outdoor coil)	Field
<b>CONTROLS</b>	
Intelli-Guide™ Controller	Standard
BACnet MS/TP Module	Field
Smoke Detector Supply and/or Return	Field
<b>DEHUMIDIFICATION</b>	
Humiditrol® (HGRH)**	Factory
<b>INDOOR QUALITY</b>	
MERV 8 Filters	Field
MERV 13 Filters	Field
MERV 16 Filters	Field
Replacement Media Filter With Metal Mesh	Field
IAQ (CO2) Sensors	Field
Needlepoint Bipolar Ionizers	Field
UVC Germicidal Light Kit	Field
<b>ELECTRICAL</b>	
Electrical Voltage (60 Hz, 208/230V 1ph, 208/230V, 460V, or 575V - 3ph)	Factory
Disconnect Switch	Factory, Field
GFI Service Outlets	Field, Factory
Weatherproof Cover For GFI	Field
<b>ECONOMIZER*</b>	
Economizer - Downflow Or Horizontal	Factory, Field
Economizer - Horizontal Conversion Kit	Field
Economizer Controls - Single Sensible/Enthalpy	Factory, Field
Economizer Controls - Differential Enthalpy	Field
Horizontal Barometric Relief Dampers - Hood Furnished	Field
<b>OUTDOOR AIR</b>	
Manual Outdoor Air Dampers	Field
Motorized Outdoor Air Dampers	Field
Power Exhaust Fan Standard Static	Field
<b>ROOF CURBS/CEILING DIFFUSERS</b>	
Roof Curbs (Standard, Clip, Hinged)	Field
Ceiling Diffusers	Field

\*Only available in High Performance

\*\*Only Available on G/E, E/E units

\*\*\*Applies to 7.5- to 12.5-ton models only.

# K-SERIES STANDARD-EFFICIENCY ROOFTOP UNIT PERFORMANCE SPECIFICATIONS

		COOLING DATA			HEATING INPUTS (KBTUH)				PHYSICAL DATA	
	NOM. TON	MODEL	EER (EER2*)	SEER/IEER (SEER2*)	LOW	STD.	MED.	HIGH	DIMENSIONS H X W X L [INCHES]	SHIP WT. [LBS.]
GAS/ ELECTRIC UNITS	2	LGX024S5E	(11.5)	(14.0)	N/A	65	N/A	N/A	39 x 47 x 86	521
	3	LGX036S5	(11.5)	(14.0)	N/A	65	108	N/A	39 x 47 x 86	531
	4	LGX048S5	(11.5)	(14.0)	N/A	65	108	150	39 x 47 x 86	532
	5	LGX060S5	(11.5)	(14.0)	N/A	65	108	150	39 x 47 x 86	532
	6	LGX072S5T	11.0	15	N/A	65	108	150	47 x 47 x 86	604
	7.5	LGX092S5M	11.0	14.6	N/A	130	180	240	47 x 61 x 102	918
	8.5	LGX102S5M	11.0	14.6	N/A	130	180	240	47 x 61 x 102	938
	10	LGX120S5M	11.0	14.6	N/A	130	180	240	47 x 61 x 102	1,002
	12.5	LGX150S5M	10.8	14.0	N/A	130	180	240	47 x 61 x 102	1,052
	15	LGX180S5M	10.8	14.0	N/A	260	360	480	55 x 92 x 133	1,884
	17.5	LGX210S5M	10.8	14.0	N/A	260	360	480	55 x 92 x 133	2,044
	20	LGX240S5M	10.8	14.0	N/A	260	360	480	55 x 92 x 133	2,216
	25	LGX300S5M	9.8	13.0	N/A	260	360	480	55 x 92 x 133	2,460
					ELECTRIC HEAT SIZES – [KW]					
ELECTRIC/ ELECTRIC UNITS	2	LCX024S5D	(11.5)	14.0	5, 7.5, 10				39 x 47 x 86	502
	3	LCX036S5	(11.5)	14.0	7.5, 15				39 x 47 x 86	504
	4	LCX048S5	(11.5)	14.0	7.5, 15				39 x 47 x 86	504
	5	LCX060S5	(11.5)	14.0	7.5, 15, 22.5				39 x 47 x 86	504
	6	LCX072S5T	11.2	15.5	7.5, 15, 22.5, 30				47 x 47 x 86	575
	7.5	LCX092S5M	11.2	14.8	7.5, 15, 22.5, 30, 45				47 x 61 x 102	870
	8.5	LCX102S5M	11.2	14.8	7.5, 15, 22.5, 30, 45				47 x 61 x 102	890
	10	LCX120S5M	11.2	14.8	15, 22.5, 30, 45, 60				47 x 61 x 102	954
	12.5	LCX150S5M	11.0	14.2	15, 22.5, 30, 45, 60				47 x 61 x 102	1,004
	15	LCX180S5M	11.0	14.2	15, 30, 45, 60				55 x 92 x 133	1,724
	17.5	LCX210S5M	11.0	14.2	15, 30, 45, 60, 90				55 x 92 x 133	1,884
	20	LCX240S5M	11.0	14.2	15, 30, 45, 60, 90				55 x 92 x 133	2,056
	25	LCX300S5M	10.0	13.2	15, 30, 45, 60, 90				55 x 92 x 133	2,300
		COOLING DATA			HEATING PERFORMANCE				PHYSICAL DATA	
	NOM. TON	MODEL	EER (EER2*)	SEER (SEER2*) OR IEER	HSPF (HSPF2*)	COP 47°F	COP 17°F	ELECTRIC HEAT [KW RANGE]	DIMENSIONS H X W X L [INCHES]	SHIP WT. [LBS.]
HEAT PUMP	2	LHX024S5D	(10.6)	(13.4)	(6.7)	N/A	N/A	5-10	39 x 47 x 86	566
	3	LHX036S5	(10.6)	(13.4)	(6.7)	3.64	2.32	7.5 - 15	39 x 47 x 86	566
	4	LHX048S5	(10.6)	(13.4)	(6.7)	3.72	2.4	7.5 - 22.5	47 x 47 x 86	641
	5	LHX060S5	(10.6)	(13.4)	(6.7)	3.7	2.38	7.5 - 22.5	47 x 47 x 86	686
	7.5	LHX092S5M	11.0	15.0	N/A	3.4	2.25	7.5 - 45	47 x 61 x 102	1,052
	8.5	LHX102S5M	11.0	15.0	N/A	3.4	2.25	7.5 - 45	47 x 61 x 102	1,084
	10	LHX120S5M	11.0	15.0	N/A	3.4	2.25	15 - 60	47 x 61 x 102	1,150
	15	LHX180S5M	10.6	13.5	N/A	3.3	2.05	15 - 60	55 x 92 x 133	2,044
	20	LHX240S5M	10.6	13.5	N/A	3.3	2.05	15 - 90	55 x 92 x 133	2,081

\*EER2, SEER2 and HSPF2 ratings only apply to 1ph equipment below 65,000 btuh.



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ACKS-300 1/25 PC86041