

# A SMARTER & MORE SUSTAINABLE COMFORT SOLUTION



**KÜHL®**  
BUILT FOR DURABILITY.  
MADE FOR COMFORT.

UNMATCHED WHEN IT COMES TO QUALITY, EASE, AND CONTROL,  
EVERYTHING ABOUT KÜHL® SETS THE STANDARD FOR HOME COMFORT.

As part of our commitment to offering sustainable products, the Kühl room air conditioner line now utilizes A2L-compliant R-32 refrigerant and features inverter compressors, helping you contribute to decarbonization goals while enjoying more energy cost savings.



**FRIEDRICH**  
DELIVERING BOLDLY CRAFTED COMFORT

# KÜHL®

## Setting the Standard for Home Comfort

Home comfort should be simple—and Friedrich® Kühl® Room Air Conditioners have industry-leading technology and features to deliver just that. Designed to meet your unique temperature requirements while delivering significant energy cost savings, Kühl sets the standard for comfort.



### Precise Comfort

The Friedrich-exclusive Precision Inverter® compressor ramps up to quickly reach your desired temperature then adjusts to stay there.



### Built to Last

Enjoy peace of mind with a durable, commercial-grade design built to perform in the extreme conditions of industrial and commercial applications.



### Quiet Operation

Relax completely thanks to QuietMaster® technology's unique airflow design that delivers powerful air dispersion at low sound levels.



### Smart Control

Adjust set point, schedule, control multiple units, and more—at home or remotely via the FriedrichLink® app.

## Access the FriedrichLink App With Built-in Wi-Fi Connectivity

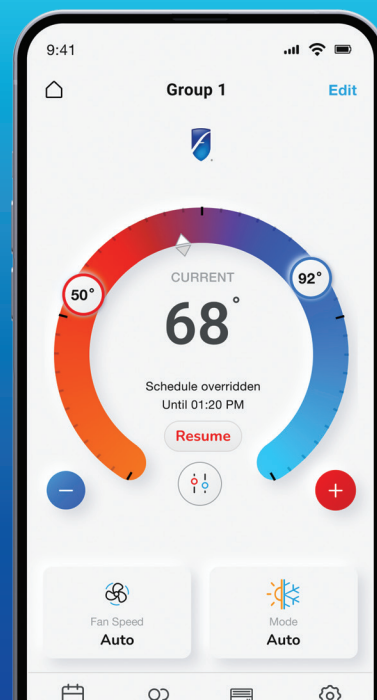
- Voice Command with Amazon Alexa and Google Home
- Seven-day programmable schedule with FriedrichLink app
- Keypad lockout prevents unwanted changes

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FriedrichLink®





# Precise, Energy-saving Performance

Kühl® Room Air Conditioners are built to reduce your environmental footprint—and energy bills—while providing precise and customizable comfort.

## Saving Energy While Maximizing Comfort

Traditional room air conditioners have on/off compressors that result in wild temperature swings, inefficient energy use, and hard stops/starts that may shorten the life of the unit.

Friedrich's **Precision Inverter**® variable speed compressor adjusts up or down based on need, providing the user precise temperature control, exceptional energy efficiencies, and dependably quiet operation.

Additionally, the frequent on/off operation of traditional units puts strain on both the unit and the power grid during hot summers. Friedrich **Soft-Start™ technology** starts the compressor with significantly less strain at start up, saving energy.



# KÜHL®+

### Increased Efficiency

Heat pumps move heat instead of generating it, making them up to 3X more efficient than space heaters and electric furnaces for reduced carbon emissions

### Decreased Cost

Window heat pumps are more affordable than traditional HVAC systems and offer greater cost efficiency



**PRECISION  
INVERTER®**

**Automatically adjusts  
its performance based  
on the room's need.**

## All the Benefits of a Heat Pump— From Your AC

Friedrich Kühl was the first to introduce energy-efficient heat pump technology to room air conditioners in 1992 and remains an industry leader today.

Kühl+ Room Air Conditioners heat effectively down to 45 degrees—eliminating the need for a second unit to provide warmth. In addition to all the great features you can expect from Kühl ACs, heat pump-enabled Kühl+ units offer:

### Year-round Comfort

With a simple window or through-the-wall installation, Kühl+ units provide precise heating and cooling, season after season

### ENERGY STAR® Certified

Most models have earned ENERGY STAR certification, using approximately 20% less energy than standard models, ensuring efficiency and savings. Additionally, some models have earned the ENERGY STAR® Most Efficient designation, highlighting their superior performance

# Crafted With Bold Features for Quiet, Lasting Comfort

Come home to unmatched comfort day after day with Kühl's dependably quiet operation and lasting, commercial-grade design.



## QuietMaster® Technology

Building the quietest air conditioners begins with the design process and continues with selecting superior components and materials.

Innovations like a vibration-isolating design and copper loops designed for better harmonics result in a noticeably quieter cooling and heating experience.



Scan to Watch Video:  
**QUIETMASTER®**  
TECHNOLOGY

## Commercial-grade Components

- 1 Dense, sound-blocking insulation and 20-gauge steel inner walls
- 2 Inverter compressor mounted on large rubber grommets
- 3 Enclosed commercial-grade fan motor
- 4 Insulated air plenum prevents outside air and noise intrusion
- 5 Resilient rings on motor mount prevent metal-to-metal contact, eliminating extra vibration and noise
- 6 Rifled copper tubing with greater surface area for heat exchange increases coil efficiency and improves overall energy efficiency



NOTE: Prototype shown. Production model may vary.



Scan to Watch Video:  
**KÜHL®**  
DURABILITY

# Model Numbers & Details



## Inverter Models

Model	Cooling Btu (Nominal)	Low Cooling Btu	HP Heating Btu	Electric Heating Btu (Back-up)	Volts	Cooling Amps	Cooling Watts	Heating Amps	Heating Watts	Electric Heating kW	EER	CEER	ENERGY STAR®	Estimated Yearly Energy Cost	COP	Moisture Removal Pints/HR	CFM	Net/ship Wt. lbs.	Sleeve
<b>KÜHL® SLIDE-OUT CHASSIS - COOL ONLY</b>																			
KCVQ08B10A	9,700	4,000	-	-	115V	9.9	502	-	-	-	10.8	13.9	N	\$51	-	2.9	200	70/77	Q
KCVS08B10A	8,700	4,000	-	-	115V	8.4	370	-	-	-	12.3	16	Y	\$50	-	3	255	100/110	S
KCVS12B10A	12,500	6,000	-	-	115V	11.8	624	-	-	-	11.1	15	Y	\$62	-	4.2	300	110/120	S
KCVS12B30A	12,700	6,000	-	-	230V	6.3	624	-	-	-	11.9	15	Y	\$62	-	4.5	300	110/120	S
KCVS16B30A	16,200	7,750	-	-	230V	8.6	833	-	-	-	10.6	14.4	Y	\$83	-	6	350	110/120	S
KCVM14B10A	13,900	6,750	-	-	115V	11.6	680	-	-	-	10	14.7	Y	\$89	-	5.6	360	120/135	M
KCVM18B30A	19,100	9,000	-	-	230V	10	990	-	-	-	11	14.4	Y	\$98	-	7.2	425	130/145	M
KCVM24B30A	23,200	11,500	-	-	230V	12	1,349	-	-	-	9.5	13	Y	\$133	-	8.9	450	130/145	M
KCVL28B30A	28,900	14,000	-	-	230V	14.3	1,577	-	-	-	10.3	13.2	Y	\$155	-	11.1	600	155/185	L
KCVL36B30A	34,100	17,000	-	-	230V	16	2,153	-	-	-	8.6	12.2	Y	\$281	-	12.5	700	155/185	L
<b>KÜHL®+ SLIDE-OUT CHASSIS - HEAT PUMP</b>																			
KHVQ10B11A	9,400	4,250	6,600	4,000	115V	9.5	580	9.9	682	1.1	8.9	12.2	N	\$58	2.6	3.2	255	73/80	Q
KHVS10B11A	10,200	5,000	8,700	4,000	115V	10.2	501	11.2	895	1.1	11.2	14	Y	\$50	3	3.3	300	105/115	S
KHVS12B33A	12,600	6,000	11,400	10,700	230V	6.2	612	4.3	1,139	3.2	11.4	14.4	Y	\$61	2.9	4.2	375	115/125	S
KHVM24B34A	22,900	11,250	18,000	13,000	230V	12.6	1,358	10.9	2,000	4.0	9	12.6	Y	\$134	2.6	9	450	135/150	M
KHVL28B35A	28,200	14,000	21,700	17,300	230V	15.5	1,566	11.5	2,137	5.0	10.1	12.6	Y	\$156	3	11.2	600	160/190	L
<b>KÜHL®+ SLIDE-OUT CHASSIS - ELECTRIC HEAT</b>																			
KEVS16B33A	16,200	7,750	-	10,700	230V	8.6	833	16.0	3,500	3.2kW	10.6	14.4	N	\$83	-	6	350	110/120	S
KEVL36B35A	34,100	1,700	-	17,300	230V	16	2,015	24.0	5,500	5.0kW	9.6	12.2	N	\$281	-	12.5	700	155/185	L

All models use R-32 refrigerant with low Global Warming Potential

\*KHS10 heat pumps operate on 115 volts and are not equipped with supplemental heat; They will not provide heat at temperatures below 40°F. Friedrich room air conditioners are designed to operate in outdoor temperatures from 60°F to 115°F.

NOTE: Kühl®+ Heat Pump heating information indicates heat pump performance. Kühl®+ Electric Heat heating information indicates electric heat strip performance. For Kühl®+ Heat Pump electric heating performance refer to corresponding Kühl®+ Electric Heat model.

# Kühl® Installation Information

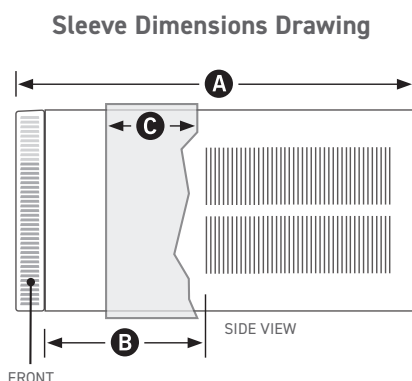
## Window or Through-the-wall Installation



							WINDOW INSTALLATION		THROUGH-THE-WALL INSTALLATION					
Sleeve	Height	Width	A	B	Minimum Extension Into Room <sup>1</sup>	Minimum Extension Outside <sup>1</sup>	Window Width		Through-the-wall Installation Finished Hole			Carton Dimensions		
			Depth With Front	Shell Depth to Louvers			Minimum <sup>2</sup>	Maximum	Height	Width	C Max. Depth	Height	Width	Depth
Q	14 1/4"	19 3/4"	21 3/8"	8 1/2"	5 1/2"	10 3/4"	22"	42"	14 1/2"	20"	8 1/2"	18 3/4"	22"	25 1/2"
S	15 15/16"	25 15/16"	29"	8 3/4"	5 3/4"	16 15/16"	27 3/8"	42"	16 3/16"	26 3/16"	7 3/8"	19"	29"	34 1/2"
M	17 15/16"	25 15/16"	29"	8 3/4"	5 3/4"	16 15/16"	27 3/8"	42"	18 3/16"	26 3/16"	7 3/8"	21"	29"	34 1/2"
L	20 3/16"	28"	35 1/2"	16 1/2"	5 3/8"	18 15/16"	29 7/8"	42"	20 3/8"	28 1/4"	15 1/8"	24 1/2"	31 5/8"	38 7/8"

<sup>1</sup>Minimum extensions when mounted in a window. <sup>2</sup>Minimum widths achieved using one side curtain assembly as opposed to both in a standard installation.

NOTE: S, M, and L sleeves may be installed in a window with no side kits if properly installed.



## Electrical Requirements

Model	Circuit Rating Breaker or T-D Fuse	Plug Face (NEMA#)	Power Cord Length (ft.)	Wall Outlet Appearance
KCVQ08B10A, KCVS08B10A, KCVS12B10A, KCVM14B10A and KHVS10B11A	125V-15A	5-15P	6'	
KCVS12B30A, KCVS16B30A and KCVM18B30A	250V-15A	6-15P	6'	
KCVM24B30A, KCVL28B30A, KHVS12B33A, KEVS16B33A	250V-20A	6-20P	6'	
KHVM24B34A, KHV128B35A, KEVL36B35A, KCVL36B30A	250V-30A	6-30P	6'	

NOTE: Power cords can be routed to the front left or right side of Kühl® units.

## Cooling Sizing Guide

AREA TO BE CONDITIONED IN SQ. FT.	APPROXIMATE COOLING BTU REQUIRED
100 - 150	5,000
150 - 250	6,000
250 - 300	7,000
300 - 350	8,000
350 - 400	9,000
400 - 450	10,000
450 - 550	12,000
550 - 700	14,000
700 - 1,000	18,000
1,000 - 1,200	21,000
1,200 - 1,400	23,000
1,400 - 1,500	24,000
1,500 - 2,000	30,000
2,000 - 2,500	34,000

Guide based on normal room insulation, average number of sun exposed windows and two person occupancy.

1. If heavily shaded, reduce cooling Btus required by 10%
2. If very sunny, increase cooling Btus required by 10%
3. Add 500 Btus per person over 2 people
4. Add 4,000 Btus if the area is a kitchen

# Kühl® Accessories

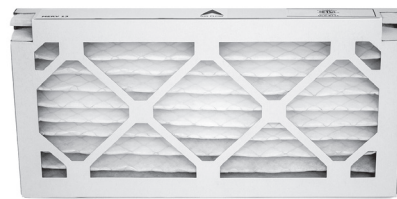
## FreshAir® IAQ

### MERV 13 Filters/Filter Brackets

Kühl® air conditioners can utilize an optional FreshAir® MERV 13 air filter that's effective at capturing and removing microorganisms from the air, which according to ASHRAE<sup>1</sup>, the leading authority on the science behind advanced indoor air quality, include harmful airborne viruses.

<sup>1</sup>Based on ASHRAE Guidance for Building Operations during the COVID-19 Pandemic.

Model No.	UPC	Description
KMFB1PK	724587440553	Kühl MERV filter bracket 1 pack
KMFBQ1PK	724587440546	Kühl Q MERV filter bracket 1 pack
KMFQ3PK	724587440560	Kühl MERV filter – Q chassis 3 pack
KMFS3PK	724587440577	Kühl MERV filter – S chassis 3 pack
KMFM3PK	724587440584	Kühl MERV filter – M chassis 3 pack
KMFL3PK	724587440591	Kühl MERV filter – L chassis 3 pack



**NOTE:** Filter bracket required for MERV 13 filter installation; Minimum bracket order of 24; Minimum filter order quantity of eight.

### Window Mounting Kits<sup>2</sup>: Kühl®+

Window kits are included with cooling only models, but are an accessory item for Kühl®+ heat/cool models.

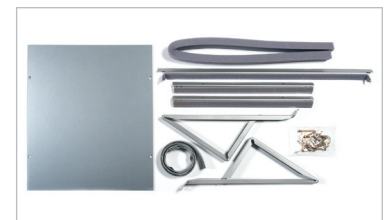
Heat / Cool Models	Kit No.
KHVQ10B11A <sup>3</sup>	KWIKQA
KHS10B10A, KHVS10B11A, KHVS12B33A, KEVS16B33A	KWIKSB
KHVM24B34A	KWIKMB
KHVL28B35A, KEVL36B35A	KWIKLB

<sup>2</sup>Window kits are required for installation of Kühl®+ models in a window.

<sup>3</sup>Does not include window brackets.



KWIKQA



KWIKSB, KWIKMB, KWIKLB

### Drain Kit

Drain kits allow the field-installed drain tube to be installed to the bottom of the sleeve to route the condensate from the unit.

Model	Kit No.
All Kühl® Series Models	DC2



### Premium Carbon Filters

Premium carbon filters remove odors and volatile organic compounds (VOC) and can achieve up to a MERV 6 rating when used with a standard filter.

**NOTE:** Sold as a 3 pack.

Model	Kit No.
KCVQ and KHVQ	KWCFQ
KCVS, KHVS, and KEVS	KWCFS
KCVM and KHVM	KWCFM
KCVL, KHVL, and KEL	KWCFL





# Friedrich® Kühl®

## Fast Features

### Cooling & Heating Efficiencies:

COOLING: 8,000–36,000 Btu

HEATING: 6,000–21,000 Btu

**Compressor Type:** Inverter-driven, variable speed and single speed

**ENERGY STAR® Certified:** Yes

**Refrigerant Type:** R-32

### Key Features

- Precision Inverter®
- QuietMaster® technology
- Built-in Wi-Fi
- Control with FriedrichLink® app or by voice command
- Available FreshAire® MERV 13 filters

### Additional Standard Features:

- **Earth-friendly design** with R-32 refrigerant that meets the EPA's 2025 global warming potential limit, the ability to set high and low temperature limits, and recyclable packaging
- Flexible Installation with a slide-out chassis and the ability to install in a window or through-the-wall with no drilling required
- **Superior air filtration** with unique fresh air intake and stale-air exhaust for improved air quality and circulation
- **Comfort and convenience** with 24-hour timer, three fan speeds, automatic fan, auto changeover between cooling and heating on Kühl+ models, auto restart, and eight-way airflow control

### Limited Warranty:

- 2-year parts & labor



**KÜHL®**  
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MADE FOR COMFORT.



Due to continuing research in new energy-saving technology, specifications are subject to change without notice.

EER is the unit's Energy Efficiency Ratio; CEER is the unit's Combined Energy Efficiency Ratio. Your energy costs will depend on your utility rates and use. The estimated energy cost is based on a electricity cost of \$.13 per kWh.

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