FRIEDRICH

PURCHASER		P.O. #		DATE	
PROJECT		LOCATION			
ENGINEER		ARCHITECT			
SUBMITTED BY		FOR APPROVAL		FOR REFERENCE	

ITEM	PLAN DESIGNATION	QUANTITY	COOLING BTU/H	VOLTAGE	FRIEDRICH MODEL

FEATURES

- Control with **FriedrichConnect®** app or by voice command
- Customizable, 7-day schedules
- Advanced grouping of multiple units
- 24-hour timer
- 3 fan speeds
- Auto fan
- Auto-changeover between cooling and heating (Kühl+ models except KEQ08)
- Auto restart
- 8-way air flow control
- Control panel lockout (ON/OFF)
- QuietMaster® technology for up to 45% quieter operation*
- Steel inner wall and extra dense insulation blocks outdoor noise
- Vibration isolating design and components reduce operating noise
- FreshAire® IAQ ready- optional MERV 13 filter captures particles down to 1 micron in size
- Fresh air intake/stale air exhaust vent*
- Washable air filter

- Carbon filter absorbs odors and reduces ozone and volatile organic compounds (VOCs)
- Check filter reminder
- Robust painted steel cabinet
- Solid-steel blower housing offers enhanced protection
- Totally enclosed commercial grade fan motor
- Durable base pan and steel inner walls
- Aluminum end plates
- High-tech aluminum fins with rifled copper tubing
- Kühl+ heat pumps provide energy efficient cooling and heating
- Temperature limiting for maximum low and high temperature settings
- Recyclable packaging

- EntryGard® anti-intrusion protection secures the chassis to the sleeve
- Insect barrier**
- Aluminum rear grille protects the outdoor coil from debris and vandalism
- Install in a window or thru-the-wall
- Slideout chassis for more permanent installation, easier maintenance access
- Patented firm grip handles for easier chassis installation and removal
- Includes heavy duty window installation hardware (optional accessory on Kühl+ models sold separately)

*Based on testing conducted at Friedrich's Design and Development Center in comparison to leading rotary compressor models.

**Feature not available on KCQ and KEQ models

KÜHL® SPECIFICATIONS

Model	Cooling Btu	Heating Btu	Volts	Cooling Amps	Cooling Watts	Heating Amps	Heating Watts	EER	CEER	Estimated Yearly Energy Cost	COP	Moisture Removal-Pints/HR	Refrigerant	CFM	Net/ship Wt. lbs.	Sleeve
KÜHL® (COOL ONLY)																
KCQ06A10A	6000	—	115	4.8	492	—	—	12.2	12.1	$48	—	1.5	R410A	190	78/85	Q
KCQ08A10A	8000	—	115	6.5	661	—	—	12.1	12.0	$65	—	2.1	R410A	200	78/85	Q
KCQ10A10B	9500	—	115	8.6	864	—	—	11.0	10.9	$85	—	3.2	R410A	250	78/85	
KCS08A10A	8000	—	115	6.5	661	—	—	12.1	12.0	$65	—	1.9	R410A	255	115/121	
KCS10A10A	10000	—	115	8.5	826	—	—	12.1	12.0	$81	—	2.9	R410A	300	122/128	
KCS12A10A	12000	—	115	9.5	1000	—	—	12.0	12.0	$98	—	3.5	R410A	300	134/136	S
KCS12A30A	12000	—	230	4.8	992	—	—	12.1	12.0	$97	—	3.5	R410A	300	134/136	
KCS14A10A	13600	—	115	11.8	1236	—	—	11.0	10.9	$121	—	4.3	R410A	275	138/138	
KCS16A30A	15700	—	230	6.6	1454	—	—	10.8	10.7	$142	—	5.0	R410A	330	137/138	
KCM14A10A	13600	—	115	10.9	1140	—	—	12.1	12.0	$112	—	3.0	R410A	360	149/138	
KCM18A30A	20000	—	230	9.6	1923	—	—	10.4	10.3	$188	—	6.0	R410A	425	154/166	M
KCM21A30A	21500	—	230	9.6	2067	—	—	10.4	10.3	$202	—	6.0	R410A	425	154/166	
KCL24A30B	23000	—	230	11.1	2308	—	—	10.4	10.3	$225	—	7.5	R410A	640	207/212	
KCL28A30A	28000	—	230	13.4	2800	—	—	10.0	9.9	$273	—	9.3	R410A	640	214/218	L
KCL36A30A	35000	—	230	18.2	3846	—	—	9.1	9.0	$376	—	11.0	R410A	725	217/248	
KÜHL® + (HEAT PUMP)																
KHS10A10A[1]	10000	8800	115	8.8	917	9.1	978	10.9	10.8	$90	2.6	2.0	R410A	300	126/131	S
KHS12A33A*	12000	9800	230	5.0	1101	4.7	1257	10.9	10.8	$108	2.9	3.0	R410A	375	133/136	
KHM18A34A*	17500	14900	230	7.4	1606	7.4	1568	10.9	10.8	$157	2.8	5.6	R410A	450	154/155	M
KHL24A35A*	24000	21000	230	11.1	2330	10.3	2211	10.3	10.2	$228	2.8	7.0	R410A	600	211/213	L
KÜHL® + (ELECTRIC HEAT)																
KEQ08A11A	7700	4000	115	6.4	694	11.2	1290	11.1	11.0	$68	—	2.1	R410A	200	82/85	Q
KES12A33A	12000	10700	230	4.9	1091	16.0	3500	11.0	10.9	$107	—	3.6	R410A	325	128/137	
KES16A33A	15700	10700	230	6.6	1454	16.0	3500	10.8	10.7	$142	—	3.4	R410A	300	138/145	S
KEM18A34A	20000	13000	230	9.6	1923	19.5	4200	10.4	10.3	$188	—	6.0	R410A	425	150/154	M
KEL24A35B	23000	17300	230	11.1	2308	24.0	5500	10.4	10.3	$225	—	7.0	R410A	750	199/211	
KEL36A35A	35000	17300	230	18.2	3846	24.0	5500	9.1	9.0	$376	—	11.0	R410A	725	241/246	L

R-32 Refrigerant Models

Model	Cooling Btu	Heating Btu	Volts	Cooling Amps	Cooling Watts	Heating Amps	Heating Watts	EER	CEER	Estimated Yearly Energy Cost	COP	Moisture Removal-Pints/HR	Refrigerant	CFM	Net/ship Wt. lbs.	Sleeve
KÜHL® (COOL ONLY)																
KCQ08B10A	8000	—	115	6.5	659	—	—	12.1	12.0	$65	—	2.1	R-32	200	72/85	Q
KCS12B10A	12000	—	115	11.1	992	—	—	12.1	12.0	$97	—	3.5	R-32	300	112/134	S
KCM24B30A	22300	—	230	13.8	2308	—	—	10.4	10.3	$202	—	7.5	R-32	640	191/212	M
KCL28B30A	28000	—	230	16	2542	—	—	10.7	10.7	$273	—	9.3	R-32	640	193/214	
KCL36B30A	34800	—	230	18.6	3894	—	—	9.3	9.3	$376	—	11.0	R-32	725	212/248	L
KÜHL® + (HEAT PUMP)																
KHS10B10A[1]	10000	8800	115	9.3	829	9.1	978	10.9	12.2	$90	2.6	2.0	R-32	300	109/131	S

[1] KHS10A10A and KHS10B10A heat pumps operates on 115 volt 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.

* 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.

 Uses R-32 refrigerant with low Global Warming Potential
Your energy costs will depend on your utility rates and use. The estimated energy cost is based on an electricity cost of $.13 per kWh.
For more information, visit www.ftc.gov/energy.

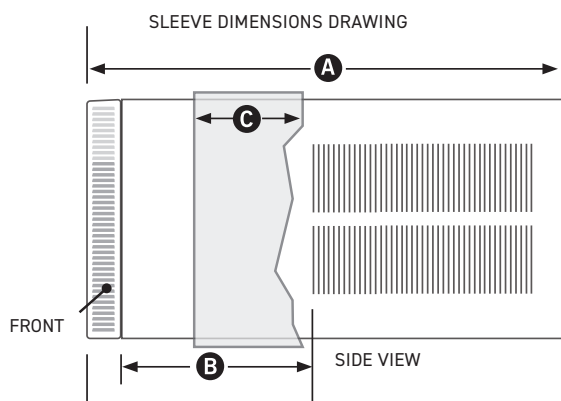Due to continuing research in new energy-saving technology, specifications are subject to change without notic

KÜHL® INSTALLATION INFORMATION

WINDOW OR THRU-WALL INSTALLATION

Sleeve	Height Inches	Width Inches	Depth with Front Inches (A)	Shell Depth to Louvers Inches (B)	Minimum Extension Into Room[1] Inches	Minimum Extension Outside[1] Inches	WINDOW INSTALLATION Window Width Inches Minimum[2]	Maximum	THRU-WALL INSTALLATION Thru-the-wall Installation Finished Hole Inches Height	Width	Max. Depth (C)	Carton Dimensions Inches 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"

[1] Minimum extensions when mounted in a window.
[2] 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 window with no side kits if properly installed.

SLEEVE DIMENSIONS DRAWING

FRONT
SIDE VIEW

CIRCUIT RATING/BREAKER/POWER CORD

Model	Circuit Rating Breaker or T-D Fuse	Plug Face (NEMA#)	Power Cord Length (ft.)	Wall Outlet Appearance
All KCQ MODELS. KEQ08A11A. KCS08A10A, KCS10A10A, KCS12A10A, KCS12B10A and KCS14A10A. KHS10A10A, KHS10B10A and KCM14A10A.	125V - 15A	5 - 15P	6	
KCS12A30A and KCS16A30A. KCM18A30A and KCM24B30A	250V - 15A	6 - 15P	6	
KCM21A30A, KCL24A30B, KCL24B30A, KCL28A30A and KCL28B30A. KES12A33A and KES16A33A. KHS12A33A.	250V - 20A	6 - 20P	6	
KCL36A30A, KCL36B30A, KEM18A34A and KEL24A35B and KEL36A35A. KHM18A34A and KHL24A35A.	250V - 30A	6 - 30P	6	

FRIEDRICH

FreshAire® IAQ

MERV 13 Filters /Filter Brackets

FreshAire® MERV 13 filtration is effective at capturing and removing microorganisms from the air, which according to ASHRAE*, the leading authority on the science behind advanced indoor air quality, include harmful airborne viruses. Maintaining the best indoor air quality possible requires that you prevent harmful pollutants from circulating throughout the space. One way to prevent this is to trap the pollutants with mechancial filtration. Kühl® air conditioners can utilize an optional MERV 13 air filter, which is at least 85% efficient at capturing particles between 1 and 3 microns in size and up to 50% efficient in filtering particles between 0.30 and 1 micron in size such as bacteria and sneeze nuclei.

*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

Filter bracket required for MERV 13 filter installation.
Minimum bracket order of 24.
Minimum filter order quantity of eight.

Window Mounting Kits*: Kühl®+

Window kits are included with cooling only models, but are an accessory item for Kühl®+ heat/cool models.
*Window kits are required for installation of Kühl®+ models in a window.

Heat/Cool Models	Kit No.
KEQ08A11A*	KWIKQA
KES12A33A, KES16A33A, KHS10A10A, KHS10B10A and KHS12A33A.	KWIKSB
KEM18A34A and KHM18A34A.	KWIKMB
KEL24A35B, KEL36A35A and KHL24A35A.	KWIKLB

* KEQ08A11A window kit KWIKQA does not include window brackets.

KWIKQA

KWIKSB, KWIKMB, KWIKLB

Drain Kit

Allows 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

Removes odors and VOCs (volatile organic compounds).
Achieve up to a MERV 6 rating when used with standard filter.
Sold as 3 pack.

Model	Kit No.
KCQ and KEQ	KWCFQ
KCS, KES and KHS	KWCFS
KCM, KEM and KHM	KWCFM
KCL, KEL and KHL	KWCFL