



DOE / NRCan Model Information Inside

KR Series

COMPACT UNIT COOLERS

Technical Bulletin: KRUC_011_022621



Products that provide lasting solutions.

KR Series Compact Unit Coolers

DOE Evaporator Compliant Matrix

DEFROST TYPE	KR	
	DUAL SPEED MOTORS	VARIABLE SPEED MOTORS
AIR		
Glide Refrigerants *	X	X
Non-Glide Refrigerants **	X	X
ELECTRIC		
Glide Refrigerants *		
Coolers	X	X
Freezers	X	X
Non-Glide Refrigerants **		
Coolers	-	X
Freezers	-	X
HOT GAS		
Glide Refrigerants *		
Coolers	X	X
Freezers	X	X
Non-Glide Refrigerants **		
Coolers	-	X
Freezers	-	X
VOLTAGES / PHASE (All 60 HZ)		
115/1	X	X
208-230/1	X	X
208-230/3	X	X
460/1	-	-
460/3	-	-
575/3	-	-
FAN CONTROLS		
RT-3*** - T-Stat	X ¹	-
RT-4*** - T-Stat with 0 to 10 V Power Supply	-	-
R24V - Relay If Remote Board	X ¹	-
R24P**** - Relay If Remote Board	-	-
VC4P - JC450 Plus Amplifier	-	X ¹
AMP1***** - Amplifier for Remote Controller	-	X ¹
VC4 - JC450 Loose	-	-
VC4A, VC4B - JC450 Mounted with Transformer	-	-
KE2 Therm	-	-
Expansion Valves		
TEV	-	-
Sporlan Stepper Valve	-	-
Control Boards		
KE2 OEM Board	-	-
Sensors		
Air Defrost - Two Temp Sensors (1 Room, 1 Coil)	-	-
Positive Defrost - 3 Temp Sensors (1 Room, 2 Coils)	-	-
Options		
Remote Display (Stays within Six Feet of Board)	-	-
Edge Manager (for Remote WiFi Access and Data Logging)	-	-
8 or 16 Port Switch (Inter-Connecting Multiple Boards)	-	-

X - Available

* Glide Refrigerants (R-407A, R-407F, R-448A, R-449A, refer to I/O Manual for Others). Models in tables with ** are not tied to this note.

** Non-Glide Refrigerants (R-404A, R-507A, refer to I/O Manual for Others)

*** Room T-Stat Needs to be Separate from T-Stat Controlling Motors

**** Includes 10 V Power Supply for Driving Fans to Low Speed

***** Amplifier Works with a Maximum of Six Motors

¹ Only One Control May Be Selected

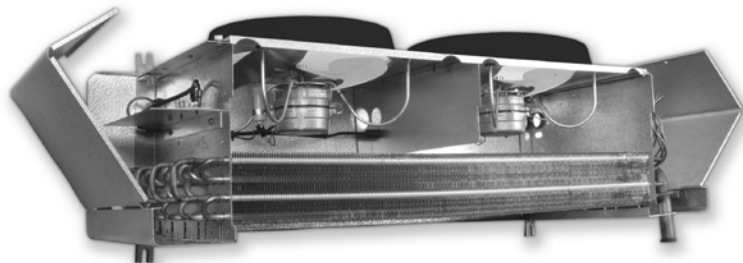


DOE / NRCAN -

The KR Series is constructed for ease of maintenance with testing and options to meet efficiency required by DOE and NRCAN regulations.

KR Series Compact Unit Coolers

*Provides Excellent Design Innovations
That Enhance Overall Refrigeration Performance*



The KR Compact Unit Cooler is specifically designed with a low silhouette that fits flush to the ceiling utilizing less than 15 inches of headroom. This design gives you more usable storage space for every walk-in application.

Standard Features

- Swept Wing Fan Blade Design for quieter operation.
- Non-metallic fan guard eliminates possibility for corrosion.
- Front access to refrigeration components for easy service.
- Electrical panel with hinged cover for easy access to electrical wiring.
- Standard EC motors are dual speed 1/15 horsepower and multi-voltage operating on 100-240/1/50-60 power.
- Die-formed patterned aluminum cabinet and drain pan with easy-to-clean radiused corners.
- Coil constructed of heavy-wall copper tube and rippled full collar aluminum fins.
- Optimized circuiting for HFC and HFO refrigerants.
- Sealed and pressurized from the factory.
- Factory-wired fans and defrost controls to convenient terminal strips for field connections.
- Plug in motor leads for quick positive connection to wiring harness.

Optional Features and Accessories

- Electric defrost models with efficient coil face mounted heaters, drain pan heaters and adjustable defrost termination.
- Hot gas defrost models available with gas or electric pan heat.
- Coils circuitured for CO₂ or fluids operating as a secondary coolant.
- Variable Speed EC fan motors requiring a 0-10 V signal for operation from full to half speed.
- Installed mechanical or electronic expansion valves.
- Installed liquid line solenoid valve.
- Painted white or black housing and drain pans to match cooler.
- Stainless-steel housing and drain pans in place of aluminum.
- Insulated drain pan to prevent drips from condensation.
- Copper fins or coil coating from Electrofin or Heresite.
- Wire fan guard.

Ordering Information

(Specify when ordering all models)

- Complete model number including refrigerant
- Room temperature
- Saturated suction temperature
- Liquid refrigerant temperature
- Optional features
- Optional accessories

KR Series Compact Unit Coolers

Model Key

KR D 2 6 A - 125 T D A A										
Unit Type				Heater Voltage						
KR - Compact Series				A - 208-230/1/60 B - 115/1/60 * K - 208-230/3/60						
 DOE Application				Motor Voltage						
D - DOE and NRCan A - Non-Regulated				A - 208-230/1/60 B - 115/1/60						
Number of Fans				Motor Type						
4, 6 FPI				D - Dual Speed EC V - Variable Speed EC B - PSC Motors **						
Fin Spacing				Refrigerant						
4, 6 FPI				N - Stock Unit *** S - R-404A P - R-507A G - Stock Unit **** Q - R-407A F - R-407F T - R-448A R - R-449A						
Type of Defrost				B - Glycol / Brine C - CO ₂						
A - Air Defrost E - Electric Defrost with Electric Pan Heat G - 3 Pipe Hot Gas with Gas Pan Heat H - 3 Pipe Hot Gas with Electric Pan Heat K - 2 Pipe Kool Gas with Gas Pan Heat P - 2 Pipe Kool Gas with Electric Pan Heat R - Heat Reclaim				BTU/H in Hundreds (00)						

* Available on pan heaters for "H" and "P" defrost options only.

** PSC motors are not allowed in USA or Canada for any evaporator solution.

*** 'N' Stock Units are for non-glide or glide refrigerants (consult I/O manual for complete refrigerant listing).

**** 'G' Stock Units are for glide refrigerants only (consult I/O manual for complete refrigerant listing).



DOE / NRCan -

Indicates evaporator models that have an AWEF rating published which meets the efficiency requirements of the US Department of Energy and Natural Resources Canada regulations. These specific regulations are for evaporators manufactured after July 10th, 2020, applied in refrigerated spaces 3000 square feet or less, and held at 55° F room temperature or colder. Not covered in this regulation are unit coolers using secondary refrigerant like glycol.

Hussmann/Krack will ship DOE / NRCan compliant evaporator coil units for regulated/covered applications to meet and adhere with government labeling requirements. **Please note that compliance is at the time of manufacture and responsibility of the OEM.**

The DOE / NRCan compliant evaporators will utilize Dual Speed or Variable Speed EC motors. Controls for these options may be factory installed or field supplied.

Both the Dual Speed and Variable Speed EC motors have default prevention programming. In the event of a control loss input (OV), the motors will run at full speed.

KR Series Compact Unit Coolers

Air Defrost Low Profile

MODEL	Cooler AWEF By Refrigerant and Motor				CAPACITY (BTU/H) @ 10° F TD +25° F EVAP	AIR FLOW (CFM)	REFRIGERATION CONNECTIONS		HANGERS	REF CHARGE (LBS)	DIMENSIONS (IN)			SHIP WGT (LBS)
	[G] Stock Unit**, [Q] R-407A, [F] R-407F, [T] R-448A, [R] R-449A		[N] Stock Unit***, [S] R-404A, [P] R-507A				LIQ	SUCT			L	W	H	
	{D}ual Speed	{V}ariable Speed	{D}ual Speed	{V}ariable Speed										
KR*16A-040[]{ }	9.00	9.00	9.00	9.00	4,000	845	1/2"	5/8"	4	1	29.13	15.32	15.90	55
KR*16A-060[]{ }	9.00	9.00	9.00	9.00	6,000	845	1/2"	5/8"	4	1	29.13	15.32	15.90	60
KR*26A-089[]{ }	9.00	9.00	9.00	9.00	8,900	1,690	1/2"	7/8"	4	2	47.13	15.32	15.90	100
KR*26A-125[]{ }	9.00	9.00	9.00	9.00	12,500	1,690	1/2"	7/8"	4	2	47.13	15.32	15.90	100
KR*36A-134[]{ }	9.00	9.00	9.00	9.00	13,400	2,535	1/2"	7/8"	4	3	65.13	15.32	15.90	120
KR*36A-170[]{ }	9.00	9.00	9.00	9.00	17,000	2,535	1/2"	1-1/8"	4	3	65.13	15.32	15.90	140
KR*46A-216[]{ }	9.00	9.00	9.00	9.00	21,600	3,380	1/2"	1-1/8"	6	3	83.13	15.32	15.90	180
KR*56A-242[]{ }	9.00	9.00	9.00	9.00	24,200	4,225	1/2"	1-1/8"	6	4	101.13	15.32	15.90	220
KR*66A-340[]{ }	9.00	9.00	9.00	9.00	34,000	5,070	1/2"	1-3/8"	6	5	119.13	15.32	15.90	265
KR*14A-058[]{ }	9.00	9.00	9.00	9.00	5,800	855	1/2"	5/8"	4	1	29.13	15.32	15.90	60
KR*24A-096[]{ }	9.00	9.00	9.00	9.00	9,600	1,750	1/2"	5/8"	4	2	47.13	15.32	15.90	90
KR*24A-117[]{ }	9.00	9.00	9.00	9.00	11,700	1,710	1/2"	5/8"	4	2	47.13	15.32	15.90	100
KR*34A-143[]{ }	9.00	9.00	9.00	9.00	14,300	2,625	1/2"	5/8"	4	3	65.13	15.32	15.90	125
KR*34A-173[]{ }	9.00	9.00	9.00	9.00	17,300	2,565	1/2"	5/8"	4	3	65.13	15.32	15.90	140
KR*44A-191[]{ }	9.00	9.00	9.00	9.00	19,100	3,500	1/2"	5/8"	6	3	83.13	15.32	15.90	165
KR*44A-232[]{ }	9.00	9.00	9.00	9.00	23,200	3,420	1/2"	5/8"	6	3	83.13	15.32	15.90	180
KR*54A-290[]{ }	9.00	9.00	9.00	9.00	29,000	4,275	1/2"	5/8"	6	4	101.13	15.32	15.90	225
KR*64A-348[]{ }	9.00	9.00	9.00	9.00	34,800	5,130	1/2"	5/8"	6	5	119.13	15.32	15.90	265

* All air defrost are DOE / NRCan compliant when applied with "D" for Dual Speed or "V" for Variable Speed EC motor codes and any HFC / HFO refrigerant.
[] Location for the refrigerant letter code. { } Include motor code as either "D" for Dual Speed or "V" for Variable Speed EC motor to be used.

** G Stock Units are for glide refrigerants only (consult I/O manual for complete refrigerant listing).

*** N Stock Units are for non-glide or glide refrigerants (consult I/O manual for complete refrigerant listing).

EXAMPLE FULL MODEL:

KRD16A-040SDA is DOE / NRCan with R-404A, Dual Speed EC motor and includes the additional letter A for 208 V single phase fan power.

Key Point -

Krack evaporator capacities shown are with **midpoint** evaporating temperature to offer a consistent capacity for selection when using different refrigerants and match other Krack and Hussmann equipment.

KR Series Compact Unit Coolers

Electric Defrost Low Profile

MODEL	AWEF by Refrigerant, Motor, and Application								CAPACITY (BTU/H) @ 10° F TD -20° F EVAP	CAPACITY (BTU/H) @ 10° F TD +20° F EVAP	AIR FLOW (CFM)	REFRIGERATION CONNECTIONS		HANGERS	REF CHARGE (LBS)	DIMENSIONS (IN)			SHIP WGT (LBS)
	[G] Stock Unit**, [Q] R-407A, [F] R-407F, [T] R-448A, [R] R-449A				[N] Stock Unit***, [S] R-404A, [P] R-507A							LIQ	SUCT			L	W	H	
	{D}ual Speed		{V}ariable Speed		{D}ual Speed		{V}ariable Speed												
	Freezer	Cooler	Freezer	Cooler	Freezer	Cooler	Freezer	Cooler											
	KR*14E-037[] { }	4.15	9.00	4.15	9.00	NA	NA	4.15											
KR*24E-074[] { }	4.15	9.00	4.15	9.00	NA	NA	4.15	9.00	7,400	9,990	1,750	1/2"	7/8"	4	2	47.13	15.32	15.90	90
KR*34E-111[] { }	4.15	9.00	4.15	9.00	NA	NA	4.15	9.00	11,100	14,990	2,625	1/2"	7/8"	4	3	65.13	15.32	15.90	125
KR*44E-148[] { }	4.15	9.00	4.15	9.00	NA	NA	4.15	9.00	14,800	19,850	3,500	1/2"	1-1/8"	6	3	83.13	15.32	15.90	165
KR*54E-185[] { }	4.15	9.00	4.15	9.00	NA	NA	4.15	9.00	18,500	24,980	4,375	1/2"	1-1/8"	6	4	101.10	15.32	15.90	200
KR*64E-220[] { }	4.15	9.00	4.15	9.00	NA	NA	4.15	9.00	22,000	29,700	5,250	1/2"	1-1/8"	6	5	119.10	15.32	15.90	240
KR*16E-035[] { }	4.15	9.00	4.15	9.00	NA	NA	4.15	9.00	3,500	4,730	845	1/2"	5/8"	4	1	29.13	15.32	15.90	55
KR*16E-045[] { }	4.15	9.00	4.15	9.00	NA	NA	4.15	9.00	4,500	6,080	845	1/2"	5/8"	4	1	29.13	15.32	15.90	60
KR*26E-090[] { }	4.15	9.00	4.15	9.00	NA	NA	4.15	9.00	9,000	12,150	1,690	1/2"	7/8"	4	2	47.13	15.32	15.90	100
KR*36E-135[] { }	4.15	9.00	4.15	9.00	NA	NA	4.15	9.00	13,500	18,230	2,535	1/2"	7/8"	4	3	65.13	15.32	15.90	140
KR*46E-180[] { }	4.15	9.00	4.15	9.00	NA	NA	4.15	9.00	18,000	24,300	3,380	1/2"	1-1/8"	6	4	83.13	15.32	15.90	180
KR*56E-192[] { }	4.15	9.00	4.15	9.00	NA	NA	4.15	9.00	19,200	25,920	4,225	1/2"	1-1/8"	6	4	101.10	15.32	15.90	220
KR*66E-270[] { }	4.15	9.00	4.15	9.00	NA	NA	4.15	9.00	27,000	36,450	5,070	1/2"	1-1/8"	6	5	119.10	15.32	15.90	265

* For motor code and refrigerant, use "D" when AWEF rating is shown and "A" for non-regulated applications or where AWEF is NA.

De-rate capacity 12% for 50 Hertz operation with 3 phase motors only. [] Location for the refrigerant letter code.

{ } Include motor code as either "D" for Dual Speed or "V" for Variable Speed EC motor to be used.

** G Stock Units are for glide refrigerants only (consult I/O manual for complete refrigerant listing).

*** N Stock Units are for non-glide or glide refrigerants (consult I/O manual for complete refrigerant listing).

EXAMPLE FULL MODEL:

KRD16E-035QDAA is DOE / NRCan with R-407A, Dual Speed EC motor and includes the additional letters AA for 208 V single phase power.

Hot Gas Defrost Low Profile

MODEL	AWEF by Refrigerant, Motor, and Application								CAPACITY (BTU/H) @ 10° F TD -20° F EVAP	CAPACITY (BTU/H) @ 10° F TD +20° F EVAP	AIR FLOW (CFM)	REFRIGERATION CONNECTIONS			HANGERS	REF CHARGE (LBS)	DIMENSIONS (IN)			SHIP WGT (LBS)
	[G] Stock Unit**, [Q] R-407A, [F] R-407F, [T] R-448A, [R] R-449A				[N] Stock Unit***, [S] R-404A, [P] R-507A							LIQ	SUCT	HOT GAS			L	W	H	
	{D}ual Speed		{V}ariable Speed		{D}ual Speed		{V}ariable Speed													
	Freezer	Cooler	Freezer	Cooler	Freezer	Cooler	Freezer	Cooler												
	KR*14()-037[] { }	4.15	9.00	4.15	9.00	NA	NA	4.15												
KR*24()-074[] { }	4.15	9.00	4.15	9.00	NA	NA	4.15	9.00	7,400	9,990	1,750	1/2"	7/8"	1/2"	4	2	47.13	15.32	15.90	90
KR*34()-111[] { }	4.15	9.00	4.15	9.00	NA	NA	4.15	9.00	11,100	14,990	2,625	1/2"	7/8"	1/2"	4	3	65.13	15.32	15.90	125
KR*44()-148[] { }	4.15	9.00	4.15	9.00	NA	NA	4.15	9.00	14,800	19,850	3,500	1/2"	1-1/8"	1/2"	6	3	83.13	15.32	15.90	165
KR*54()-185[] { }	4.15	9.00	4.15	9.00	NA	NA	4.15	9.00	18,500	24,980	4,375	1/2"	1-1/8"	1/2"	6	4	101.10	15.32	15.90	200
KR*64()-220[] { }	4.15	9.00	4.15	9.00	NA	NA	4.15	9.00	22,000	29,700	5,250	1/2"	1-1/8"	1/2"	6	5	119.10	15.32	15.90	240
KR*16()-035[] { }	4.15	9.00	4.15	9.00	NA	NA	4.15	9.00	3,500	4,730	845	1/2"	5/8"	1/2"	4	1	29.13	15.32	15.90	55
KR*16()-045[] { }	4.15	9.00	4.15	9.00	NA	NA	4.15	9.00	4,500	6,080	845	1/2"	5/8"	1/2"	4	1	29.13	15.32	15.90	60
KR*26()-090[] { }	4.15	9.00	4.15	9.00	NA	NA	4.15	9.00	9,000	12,150	1,690	1/2"	7/8"	1/2"	4	2	47.13	15.32	15.90	100
KR*36()-135[] { }	4.15	9.00	4.15	9.00	NA	NA	4.15	9.00	13,500	18,230	2,535	1/2"	7/8"	1/2"	4	3	65.13	15.32	15.90	140
KR*46()-180[] { }	4.15	9.00	4.15	9.00	NA	NA	4.15	9.00	18,000	24,300	3,380	1/2"	1-1/8"	1/2"	6	4	83.13	15.32	15.90	180
KR*56()-192[] { }	4.15	9.00	4.15	9.00	NA	NA	4.15	9.00	19,200	25,920	4,225	1/2"	1-1/8"	1/2"	6	4	101.10	15.32	15.90	220
KR*66()-270[] { }	4.15	9.00	4.15	9.00	NA	NA	4.15	9.00	27,000	36,450	5,070	1/2"	1-1/8"	1/2"	6	5	119.10	15.32	15.90	265

* For motor code and refrigerant, use "D" when AWEF rating is shown and "A" for non-regulated applications or where AWEF is NA.

[] Gas defrost type K, H, G, or P. See definition to the right. [] Location for the refrigerant letter code.

{ } Include motor code as either "D" for Dual Speed or "V" for Variable Speed EC motor to be used.

** G Stock Units are for glide refrigerants only (consult I/O manual for complete refrigerant listing).

*** N Stock Units are for non-glide or glide refrigerants (consult I/O manual for complete refrigerant listing).

Available Gas Defrost Types

(K) - 2 Pipe Kool Gas with Gas Pan

(P) - 2 Pipe Kool Gas with Electric Pan Heat

(G) - 3 Pipe Hot Gas with Hot Gas Pan

(H) - 3 Pipe Hot Gas with Electric Pan Heat

EXAMPLE FULL MODEL:

KRD24K-035PVA is DOE / NRCan with R-507A, Variable Speed EC motor and includes the additional letter A for 208 V single phase fan power.

Key Point -

Krack evaporator capacities shown are with **midpoint** evaporating temperature to offer a consistent capacity for selection when using different refrigerants and match other Krack and Hussmann equipment.

KR Series Compact Unit Coolers

KR Fan Motor Data

MODEL	DUAL OR VARIABLE SPEED EC MOTORS				PSC MOTORS			
	115/1/60		208-230/1/60		115/1/60		208-230/1/60	
	AMPS	WATTS	AMPS	WATTS	AMPS	WATTS	AMPS	WATTS
1 FAN	0.9	46	0.6	45	0.6	64	0.3	58
2 FAN	1.8	92	1.2	90	1.2	128	0.6	116
3 FAN	2.7	138	1.8	135	1.8	192	0.9	174
4 FAN	3.6	184	2.4	180	2.4	256	1.2	232
5 FAN	4.5	230	3.0	225	3.0	320	1.5	290
6 FAN	5.4	276	3.6	270	3.6	384	1.8	348

Dual or Variable Speed EC Motors are motor codes "D" and "V". PSC motors are motor code "B". Refer to complete Model Key on page 2.

Key Point -

Dual Speed fan motors use a voltage input from the incoming fan power to a third connection on the motor to trigger low speed operation.
Variable Speed EC need a 0-10 V signal with 10 V as minimum speed operation. Both motor types operate as a single speed EC motor without a control signal.

Electric Defrost Heater Data

MODEL	230/1/60		230/3/60	
	AMPS	WATTS	AMPS	WATTS
1 FAN - 037, 035, 045	4.3	1000	2.9	1000
2 FAN - 074, 090	8.7	2000	5.8	2000
3 FAN - 111, 135	13.0	3000	8.7	3000
4 FAN - 148, 180	17.4	4000	11.6	4000
5 FAN - 185, 192	21.7	5000	14.5	5000
6 FAN - 220, 270	26.1	6000	17.4	6000

Electrical information for defrost type "E". Refer to complete Model Key on page 2.

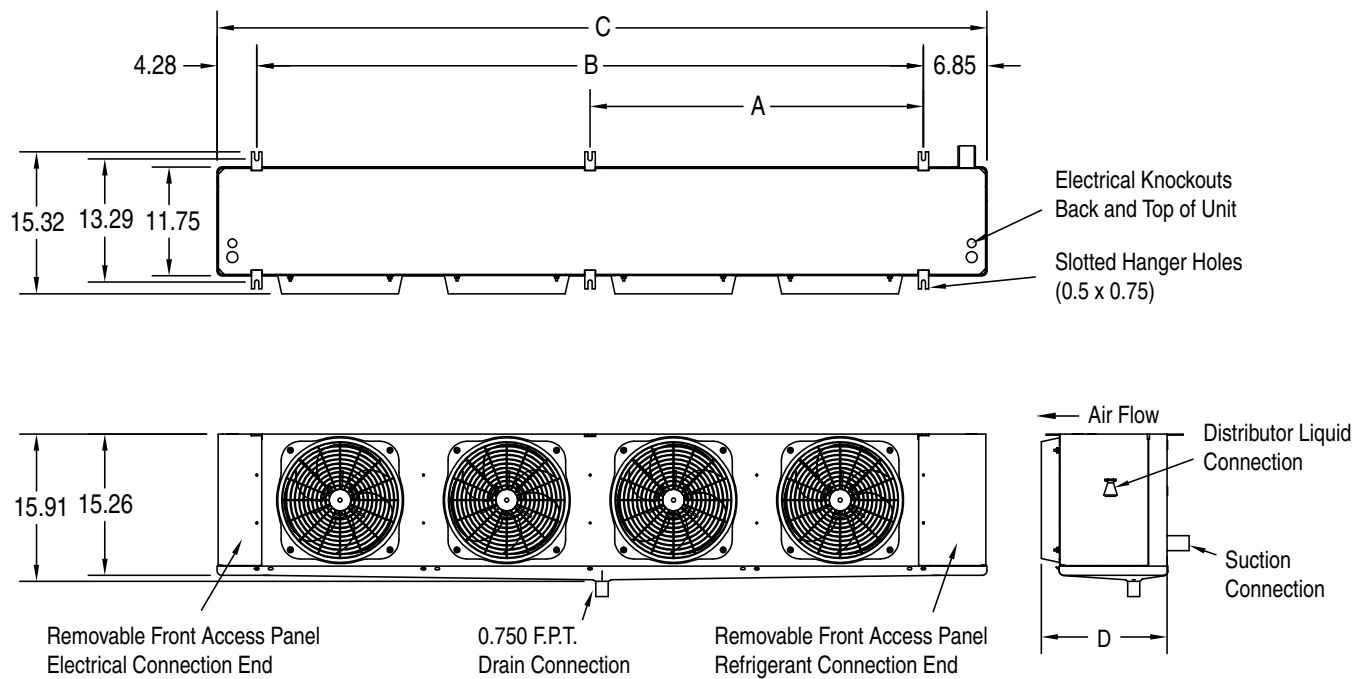
Hot Gas Defrost Drain Pan Heater Data

MODEL	115/1/60		230/1/60	
	AMPS	WATTS	AMPS	WATTS
1 FAN - 037, 035, 045	2.6	300	1.3	300
2 FAN - 074, 090	5.2	600	2.6	600
3 FAN - 111, 135	7.0	800	3.5	800
4 FAN - 148, 180	8.7	1000	4.4	1000
5 FAN - 185, 192	9.6	1100	4.8	1100
6 FAN - 220, 270	12.2	1400	6.1	1400

Electrical information for pan heaters on defrost type "P" or "H". Refer to complete Model Key on page 2.

KR Series Compact Unit Coolers

Dimensional Data



UNIT DIMENSIONS

SIZE	A	B	C	D
1 FAN	-	18.00	29.13	15.32
2 FAN	-	36.00	47.13	15.32
3 FAN	-	54.00	65.13	15.32
4 FAN	36.00	72.00	83.15	15.32
5 FAN	54.00	90.00	101.13	15.32
6 FAN	54.00	108.00	119.13	15.32

Note: All dimensions in inches.

Allow 15" clearance between rear of coil and wall for maximum efficiency and minimum noise level.

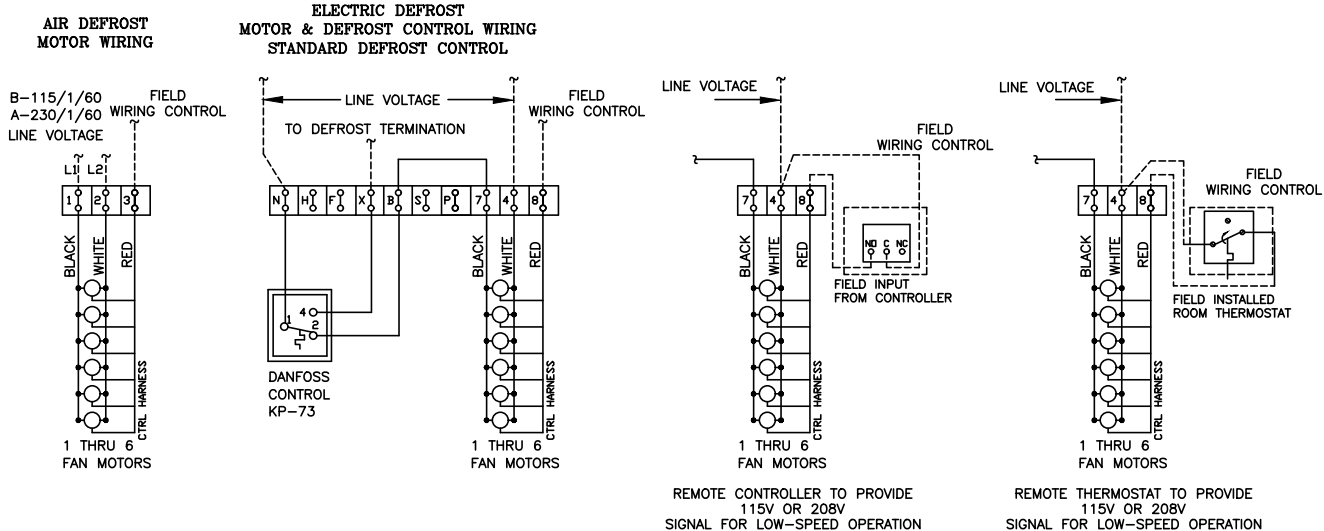
12" left side clearance allows for optimum access to electrical connections.

KR Series Compact Unit Coolers

Wiring Diagrams

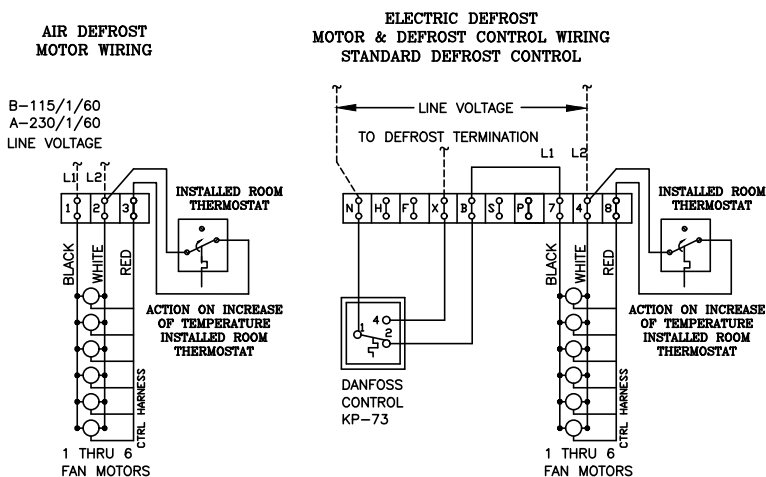
Dual Speed EC Motor Wiring - Motor Code D

Remote thermostat or controller would use incoming fan power as source for the 115 V or 208 V voltage signal for low speed operation.



Dual Speed EC Motor Wiring - Motor Code D

Factory-installed thermostat uses incoming fan power as voltage signal for low speed operation.

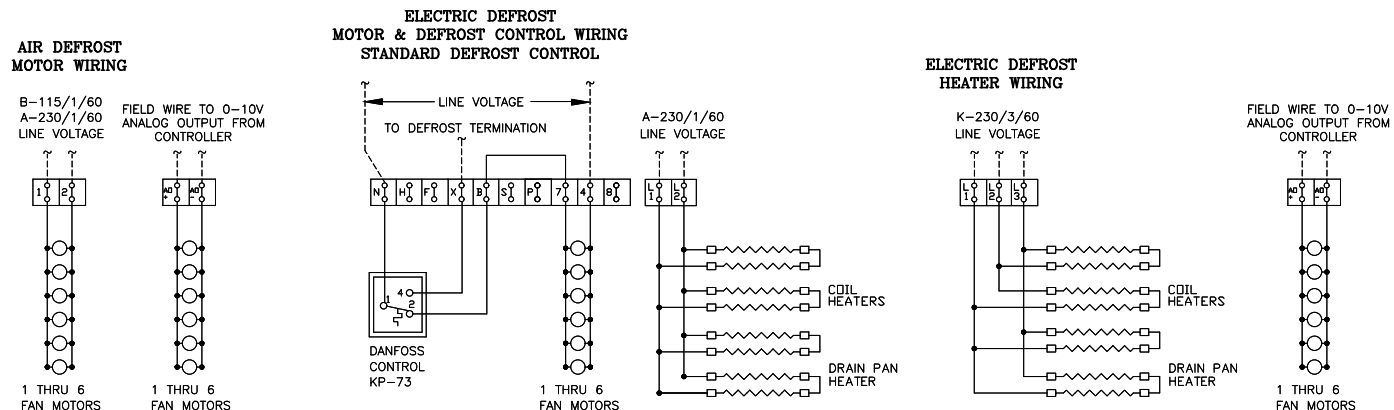


KR Series Compact Unit Coolers

Wiring Diagrams

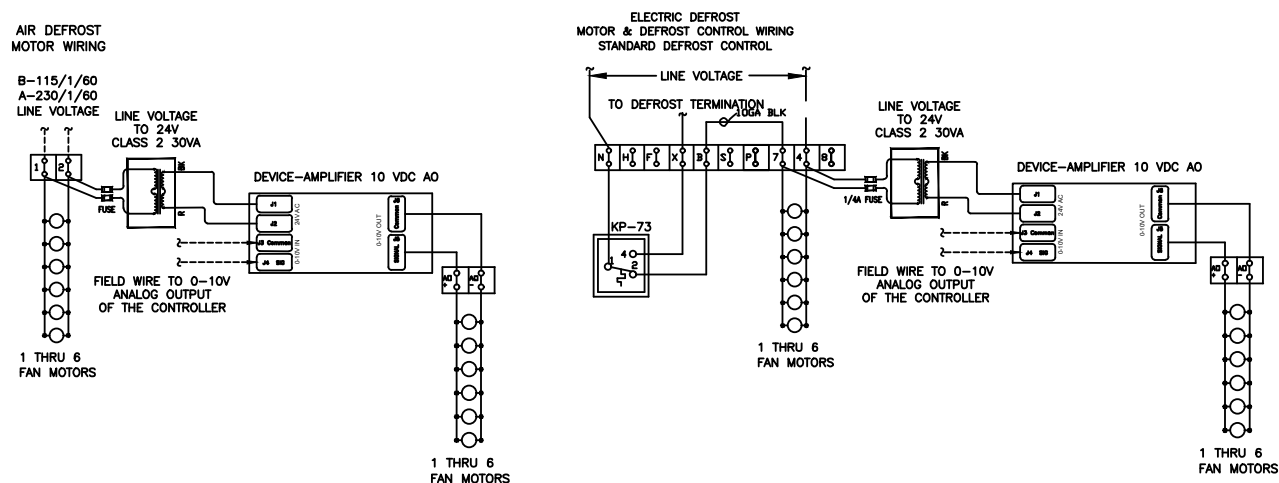
Variable Speed EC Motor Wiring - Motor Code V

Field supplied 0-10 V signal must provide 20 mA per motor or use amplifier on each evaporator. Default operation is full speed with 0V or no signal.



Variable Speed EC Motor Wiring - Motor Code V

Remote 0-10 V signal connected to signal amplifier in the panel enabling variable speed operation.

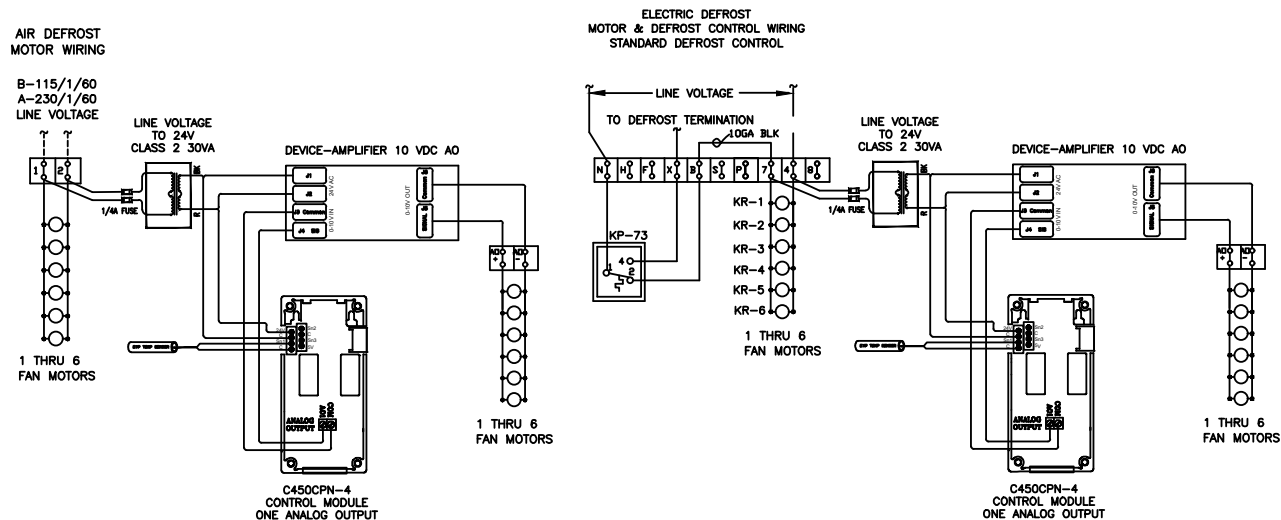


KR Series Compact Unit Coolers

Wiring Diagrams

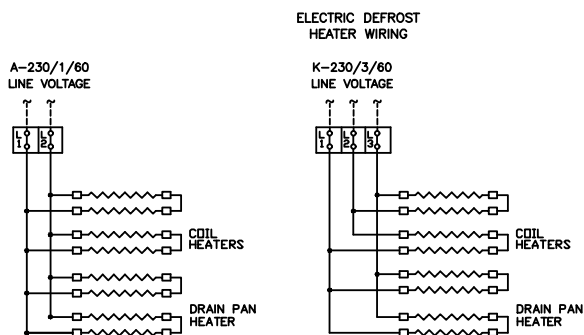
Variable Speed EC Motor Wiring - Motor Code V

Installed system 450 controller in the evaporator
enabling variable speed operation.



Heater Defrost Motor Wiring

Defrost coil and drain pan heater wiring.

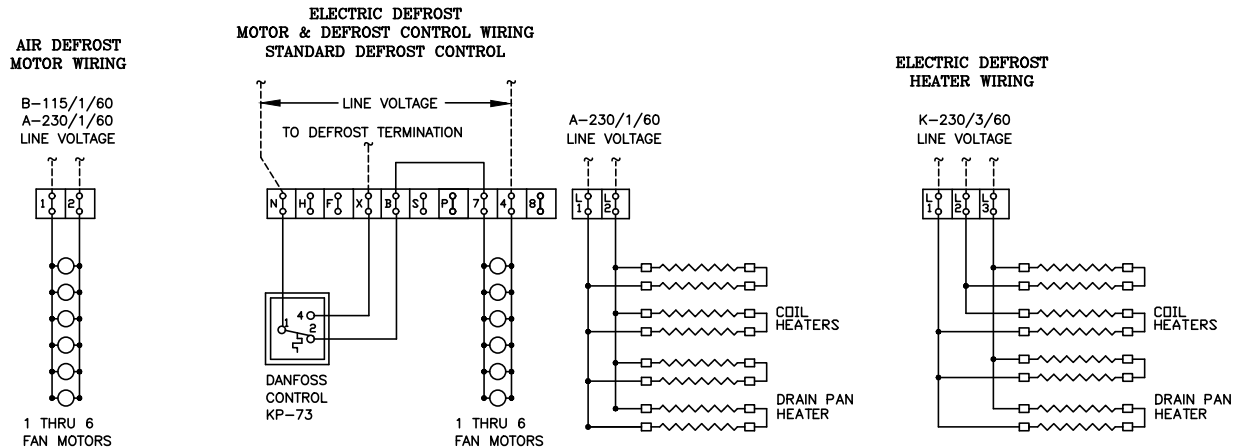


KR Series Compact Unit Coolers

Wiring Diagrams

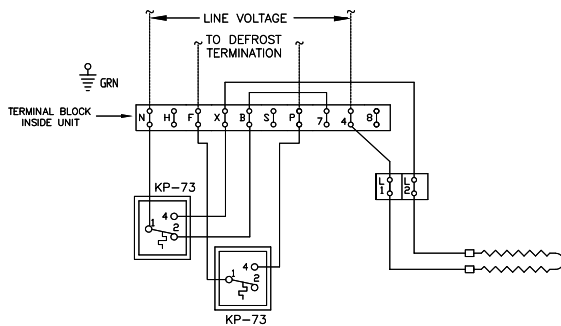
Single Speed PSC Motor Wiring - Motor Code B

Basic wiring with no speed control.

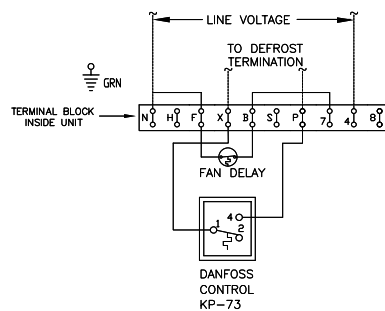


Gas Defrost Setup

H and P Defrost Control Wiring - Gas Defrost with Electric Drain Pan Heater



G and K Defrost Control Wiring - Gas Defrost with Gas Drain Pan Heater



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