

General Specifications:

Heating/Cooling chassis.

- **Safety Compliance** – The KEC/KWC is a listed product eligible to bear the CSA mark, cCSAus mark (US and Canada Safety compliance). The KEC/KWC is produced in a CSA inspected factory in Cambridge Ontario Canada.
- **3rd Party Energy Performance Verification** -- The Cooling-Capacity and Energy Performance Verification Testing for the K Series of chassis is conducted by Intertek Labs – certified Reports are available upon request – these tests cover the full range of cooling outputs available for the K Series. The Cooling-Capacity Tests were conducted in accordance with ANSI/ASHRAE Standard 310 / 380
- **General Construction** –Complete air cooled refrigeration system with 410A refrigerant. Two low noise high static pressure dual inlet evaporator blowers tested and verified for performance. One High performance low speed prop fan with slinger ring condenser fan. Electric resistance heat (optional) uses high-mass, low temperature finned-tubular heaters. Unit can be hard wired to a junction box or supplied with a power cord.

Digital Touchpad Control – The KEC/KWC Digital Control is used to control the integral air conditioner and heat source via a touchpad, or optional remote 24-volt wall mounted thermostats. Unit-mounted digital panel with touchpad temperature control and with touchpad for heating, cooling, and fan operation. Includes the following features:

- Low Ambient Lockout Control: Prevents cycling in cooling operation below 6 degrees C (43 degrees F) outdoor air temperature.
- Temperature-Limit Control: Prevents occupant from exceeding preset, setback, or setup temperature.
- Remote Control Ready: -- Detachable Molex connector with 7-wire lead connection to wireless or wired 24 VAC wall thermostat. Standard 5 wire , plus one additional for low speed fan and on additional for energy management. Chassis can be enslaved to external control by a change of DIP-switch setting on the electronic board.

Wall sleeve

36.125"W x 24.75"H wall sleeve made of satin coat heavy gauge steel, coated with electrostatically applied, baked on urethane powder coat black paint for maximum corrosion protection.

Room Cabinet

Room grille and control door— Top discharge punched satin coat steel powder coated black. Enclosure completely encloses controls.

Room cabinet— Powder coated 18 gauge room enclosure.

Electric heat section

Consists of high mass, low surface temperature, finned tubular type electric heater(s) with high limit cut-out.

Power air damper for outside air (optional)

A power motorized door for fresh air opens when evaporator blower is energized, and automatically closes when the evaporator blower is not energized.

Refrigeration System -- Direct expansion indoor coil with capillary restrictor; and rotary compressor with vibration isolation and overload protection.

Indoor and Outdoor Coils -- Seamless copper tubes mechanically expanded into aluminum.

Charge -- R410A.

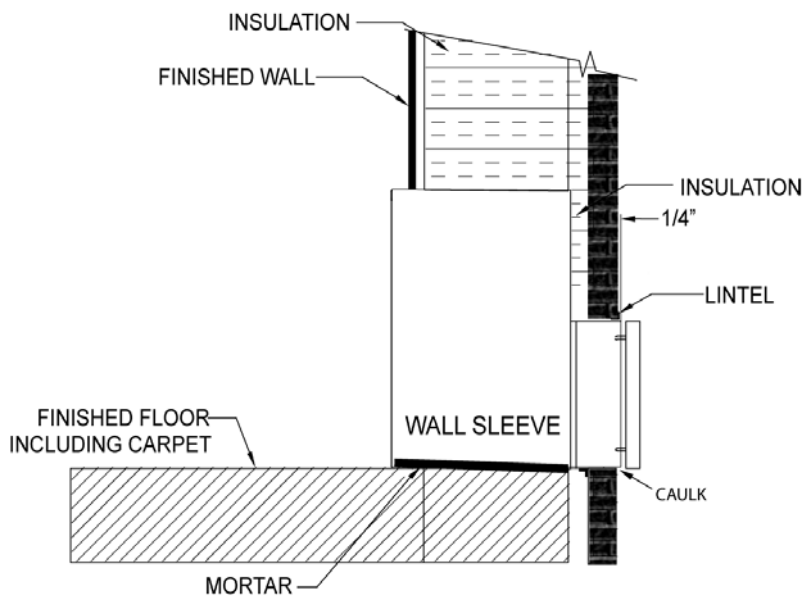
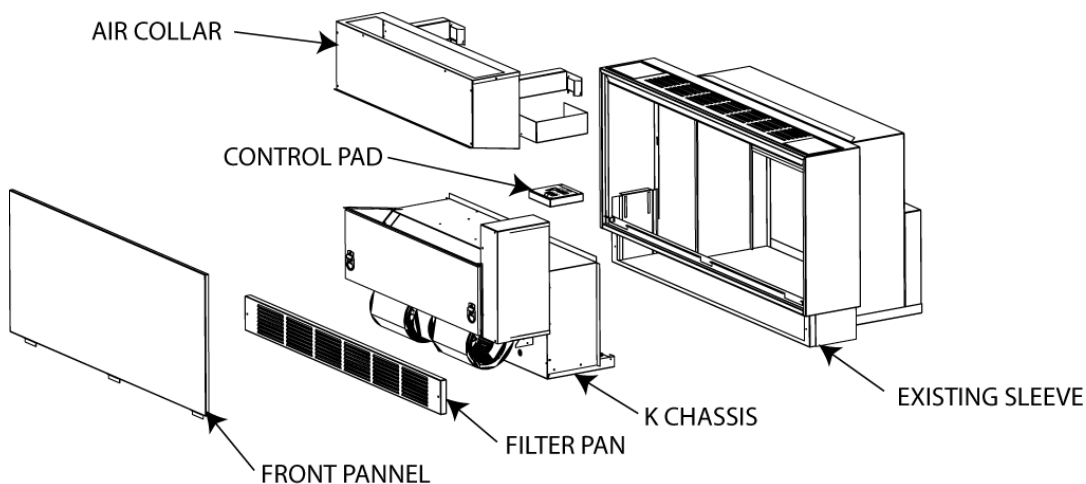
Evaporator Fan-- One direct drive, dual-shaft with permanent split capacitor two-speed motor. The evaporator fan consists of two centrifugal dual-inlet blower type.

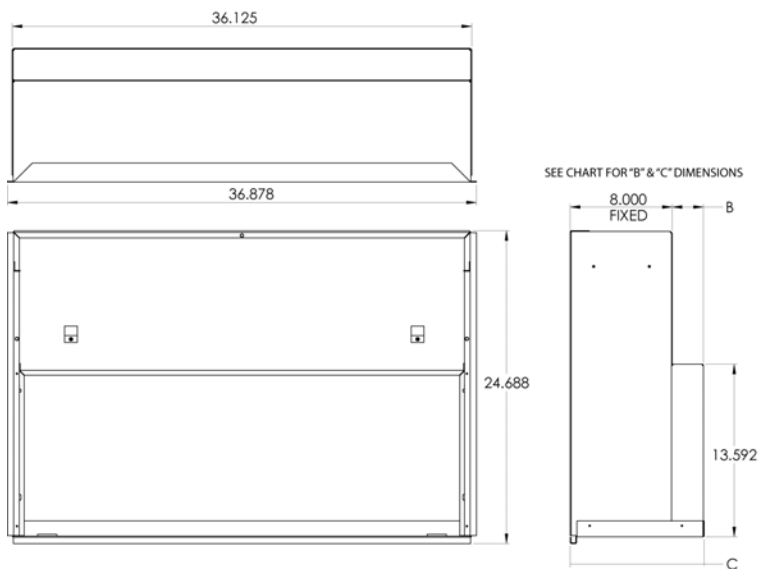
Filters -- Washable aluminum weave filter in a durable aluminum frame.

Outdoor Louver-- Architectural clear anodized aluminum

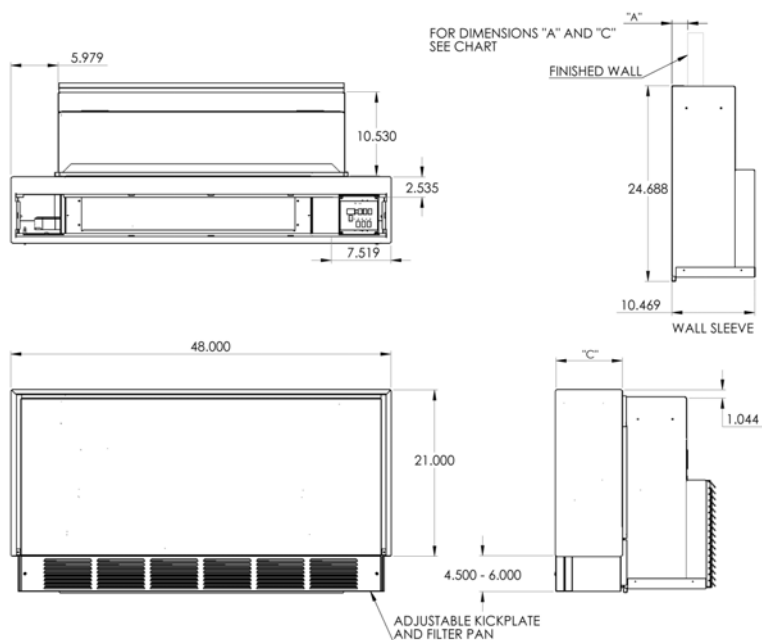
Condensate Drain -- Drain pan to direct condensate to outdoor coil for re-evaporation.

Unit Performance Ratings – Cooling capacity tested and rated according to AHRI 310/380/CSA C744, "Packaged Terminal Air-Conditioners and Heat Pumps."





FIXED	DIM "B"	DIM "C"
8"	2.5	10.5
8"	3.5	11.5
8"	4	12
8"	5	13
8"	6	14
8"	7	15
8"	8	16
8"	9	17
8"	10	18



WALL BOX DIMENSIONS			
DIMENSION "A"		DIMENSION "C"	
inches	mm	inches	mm
0	0	8.375	213
0 to 1	0 - 25	9.375	238
1 to 2	25 - 51	10.375	263
2 to 3	51 - 76	11.375	289
3 to 4	76 - 102	12.375	314
4 to 5	102 - 127	13.375	340
5 to 6	127 - 152	14.375	365
6 to 7	152 - 178	15.375	390
7 to 8	178 - 203	16.375	416
8 to 9	203 - 228	17.375	441
9 to 10	228 - 254	18.375	467

KED Air Conditioner with Electric Resistance Heat

Model	Voltage	Hz	MCA	MOP*	NEMA Plug	Cooling					Resistance Heating			Indoor SCFM	Indoor SCFM	Net Wt. lbs.
			AMPS	AMPS	LCDI	BTU / hr	EER	AMPS	S/T	Pints/hr	BTU / hr	KW	AMPS	HIGH•	LOW•	
KED07L00E6	115	60	8.6	15	5-15P	6700	10.6	6.1	.88	0.6	N/A	N/A	N/A	310	260	128
KED09L00E6	"	"	12.4	"	"	9600	10.7	8.8	.80	1.7	N/A	N/A	N/A	370	325	"
KED12L00E7	"	"	15.4	20	5-20P	11600	9.0	12.4	.72	2.9	N/A	N/A	N/A	"	"	"
KED07K16E7*	230-208	"	9.4	"	6-20P	6700	10.6	3.0/3.2	.88	0.6	5700/4700	1.6/1.3	7.5/6.9	315/305	265/250	"
KED07K25E6	"	"	14.3	15	6-15P	"	"	"	"	"	8900/7300	2.5/2.1	11.4/10.4	"	"	"
KED07K34E7	"	"	19.2	20	6-20P	"	"	"	"	"	12000/9900	3.4/2.8	15.3/14.0	"	"	"
KED09K25E6	"	"	14.3	15	6-15P	9600	10.7	4.4/4.6	.80	1.7	8900/7300	2.5/2.1	11.4/10.4	380/365	335/315	"
KED09K34E7	"	"	19.2	20	6-20P	"	"	"	"	"	12000/9900	3.4/2.8	15.3/14.0	"	"	"
KED09K50E8	"	"	27.9	30	6-30P	"	"	"	"	"	17400/14300	5.0/4.1	22.3/20.3	"	"	"
KED12K34E7	"	"	19.2	20	6-20P	11600	9.0	6.2/6.5	.72	2.9	12000/9900	3.4/2.8	15.3/14.0	"	"	"
KED12K50E8	"	"	27.9	30	6-30P	"	"	"	"	"	17400/14300	5.0/4.1	22.3/20.3	"	"	"
KED15K25E6	"	"	14.3	15	6-15P	13600	8.3	8.0/8.4	.69	3.8	8900/7300	2.5/2.1	11.4/10.4	"	"	"
KED15K34E7	"	"	19.2	20	6-20P	"	"	"	"	"	12000/9900	3.4/2.8	15.3/14.0	"	"	"
KED15K50E8	"	"	27.9	30	6-30P	"	"	"	"	"	17400/14300	5.0/4.1	22.3/20.3	"	"	"
KED07R20E2	277	"	9.5	15	7-20P	6700	10.6	2.7	.90	0.4	7000	2.0	7.6	370	325	"
KED07R30E2	"	"	14.0	"	"	"	"	"	"	"	10400	3.0	11.2	"	"	"
KED07R40E2	"	"	18.5	20	"	"	"	"	"	"	13800	4.0	14.8	"	"	"
KED09R20E2	"	"	9.5	15	"	9600	10.7	3.9	.80	1.7	7000	2.0	7.6	"	"	"
KED09R30E2	"	"	14.0	"	"	"	"	"	"	"	10400	3.0	11.2	"	"	"
KED09R40E2	"	"	18.5	20	"	"	"	"	"	"	13800	4.0	14.8	"	"	"
KED12R20E2	"	"	9.5	15	"	11600	9.0	5.4	.72	2.9	7000	2.0	7.6	"	"	"
KED12R30E2	"	"	14.0	"	"	"	"	"	"	"	10400	3.0	11.2	"	"	"
KED12R40E2	"	"	18.5	20	"	"	"	"	"	"	13800	4.0	14.8	"	"	"
KED15R20E2	"	"	9.5	15	"	13600	8.3	7.0	.69	3.8	7000	2.0	7.6	"	"	"
KED15R30E2	"	"	14.0	"	"	"	"	"	"	"	10400	3.0	11.2	"	"	"

*Time Delay Fuse or HACR Circuit Breaker

•Dry Coil

*Certification allows two of these units to be run off one 20 Amp circuit as cord-connected.

Not to be used with a duct system

KWD Air Conditioner with Hydronic Heat

Model	Voltage	Hz	MCA	MOP*	NEMA Plug	Cooling					Resistance Heating			Indoor SCFM	Indoor SCFM	Net Wt. lbs.
			AMPS	AMPS	LCDI	BTU / hr	EER	AMPS	S/T	Pints/hr	BTU / hr	KW	AMPS	HIGH•	LOW•	
KWD07L00E7	115	60	8.6	20	5-20P	6700	10.6	6.1	.85	0.7	n/a	n/a	n/a	345	305	128
KWD09L00E7	"	"	12.4	"	"	9600	10.7	8.8	.80	1.7	"	"	"	"	"	"
KWD12L00E7	"	"	15.4	"	"	11600	9.0	12.4	.72	2.9	"	"	"	"	"	"
KWD07K00E7	230 - 208	"	4.2	"	6-20P	6700	10.6	3.0/3.2	.85	1.0	"	"	"	355 / 340	315 / 295	"
KWD09K00E7	"	"	5.8	"	"	9600	10.7	4.4/4.6	.80	1.7	"	"	"	"	"	"
KWD12K00E7	"	"	7.7	"	"	11600	9.0	6.2/6.5	.72	2.9	"	"	"	"	"	"
KWD15K00E7	"	"	9.4	"	"	13600	8.3	8.0/8.4	.68	3.8	"	"	"	"	"	"
KWD07R00E2	277	"	3.8	15	7-20P	6700	10.6	2.7	.88	0.50	"	"	"	345	305	"
KWD09R00E2	"	"	5.5	"	"	9600	10.7	3.9	.80	1.7	"	"	"	"	"	"
KWD12R00E2	"	"	6.5	"	"	11600	9.0	5.4	.72	2.9	"	"	"	"	"	"
KWD15R00E2	"	"	8.1	"	"	13600	8.3	7.0	.69	3.8	"	"	"	"	"	"

*Time Delay Fuse or HACR Circuit Breaker

• Dry Coil

Model	Voltage	Hz	Hot Water Heat HIGH SPEED	Hot Water Heat LOW SPEED	Water Flow Rate	Water Pressure Drop	Steam Heat HIGH SPEED	Steam Heat LOW SPEED	Heating Current
			Btu / hr	Btu / hr	USGPM	Ft of H2O	Btu / hr	Btu / hr	Amps
KWD07L00	115	60	15100	14100	1.56	0.4	20600	19000	<1
KWD09L00	115	60	16200	15400	1.66	0.4	22000	20800	<1
KWD12L00	115	60	16200	15400	1.66	0.4	22000	20800	<1
KWD07K00	230 - 208	60	15500 / 14800	14800 / 13600	1.68 / 1.65	0.4	21000 / 20300	19900 / 18500	<1
KWD09K00	230 - 208	60	16400 / 16000	15600 / 15100	1.68 / 1.65	0.4	22300 / 21800	21100 / 20400	<1
KWD12K00	230 - 208	60	16400 / 16000	15600 / 15100	1.68 / 1.65	0.4	22300 / 21800	21100 / 20400	<1
KWD15K00	230 - 208	60	16400 / 16000	15600 / 15100	1.68 / 1.65	0.4	22300 / 21800	21100 / 20400	<1
KWD07R00	277	60	16200	15400	1.66	0.4	22000	20800	<1
KWD09R00	277	60	16200	15400	1.66	0.4	22000	20800	<1
KWD12R00	277	60	16200	15400	1.66	0.4	22000	20800	<1
KWD15R00	277	60	16200	15400	1.66	0.4	22000	20800	<1

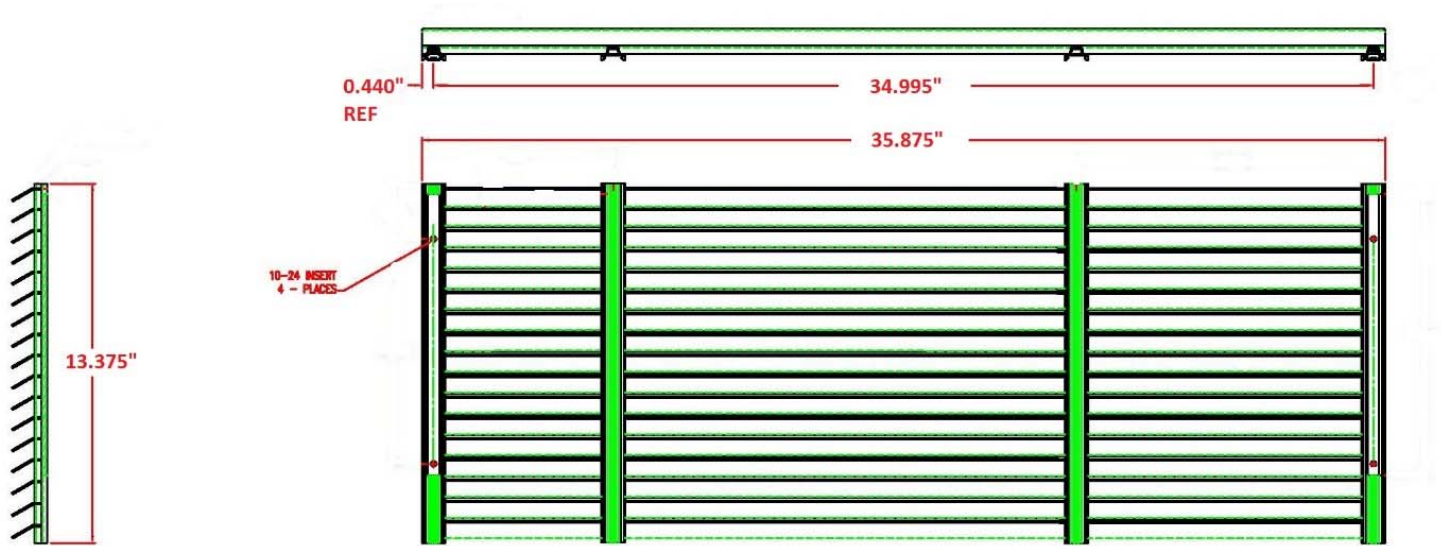
Maximum Steam Pressure: 2 psig Maximum Water Temperature: 210 °F

HIGH SPEED Hot Water Ratings based on ASHRAE/AHRI conditions of 65°F entering air, 200°F entering water and 180°F leaving water temperatures LOW SPEED Hot Water Ratings based on water flow rate set for HIGH SPEED rating condition.

Steam ratings based on conditions of 65°F entering air, and 2 psig steam pressure with heat output automatically adjusting for blower speed

NOT TO BE USED WITH A DUCT SYSTEM

Outdoor Architectural Aluminum Grille



CONNECTION DIAGRAM	DANGER: ELECTRICAL SHOCK HAZARD, DISCONNECT POWER BEFORE SERVICING	KEC -ELECTRONIC BASE CONTROL, 208/230 VAC 60 Hz. 9, 12 & 15K BTU/HR
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