KEH New Generation "D"
Condensing Units

PRODUCT DATA & SPECIFICATIONS

Bulletin K40-KEHD-PDS-1
Part # 1108864

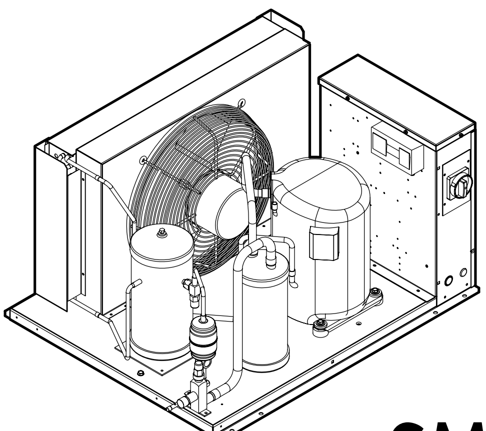
PRODUCT SUPPORT
web: **www.k-rp.com/keh**
email: **smcu@k-rp.com**
call: **1-844-893-3222 x521**
scan:

60 Hz

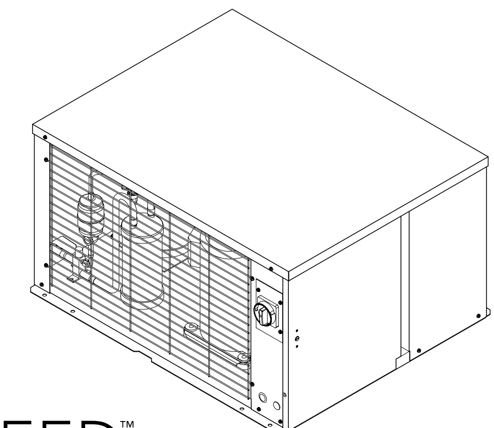
Indoor/Outdoor Air-Cooled Hermetic Condensing Units

1/2 to 3.5 HP - Medium and Low Temperature Refrigeration

INCLUDES **DOE + NRCAN COMPLIANT MODELS**



Indoor Unit



Outdoor Unit

SMARTSPEED™ FAN MOTOR TECHNOLOGY

See Page 4 for details

CONTENTS

NOMENCLATURE

KEH A 010 M 8 - H T3 D - A

Model Series
KEH = Excel Hermetic Air Cooled Condensing Unit Line

Compressor Manufacturer
A = Copeland
T = Tecumseh

Nominal HP
005 - 035 = 1/2 - 3.5 HP

Application Range
M = Medium Temp
L = Low Temp

Refrigerant*
6 = R404A / R507
8 = R404A / R407A / R448A

Enclosure
H = Outdoor
I = Indoor

Voltage*

S2 = 208/230-1-60	T3 = 208/230-3-60
S3 = 230-1-60	T4 = 460-3-60
S6 = 200/220-1-50	T5 = 575-3-60
S7 = 200-1-50	T7 = 200/220-3-50
	T9 = 380/400-3-50

* subject to compressor availability

Design Generation
D = Latest Catalog Series

Pre-Selected Factory Mounted Option Packages
See detail on next page

STANDARD FEATURES

Indoor Unit:

- Weatherproof electrical control box with compressor contactor and fused control circuit
- Welded-hermetic compressor
- High efficiency enhanced tube and fin condenser design
- Pre-formed piping
- Quiet fan motor operation
- SmartSpeed EC Fan Motor Technology standard on models using chassis 1 and 2 (see page 13)
- Energy efficient PSC condenser fan motor on models using chassis 3 (see page 13)
- Electrical control panel away from air flow stream
- Unit leak tested and shipped with helium holding charge
- Painted cabinet
- Receiver with fusible plug and liquid shut off valve
- Suction service valve
- Copper tubing secured with cushion clamps
- Fixed high and adjustable low pressure control

Outdoor Unit: All Standard Features of Indoor Unit, Plus:

- Painted weather-resistant housing with removable hood
- Flooded head pressure control (adjustable)
- Crankcase heater

AVAILABLE OPTIONS

- Sealed suction filter
- Suction accumulator
- Suction accumulator with boil-out coil
- Heated and insulated receiver
- Sealed liquid line filter drier and sight glass
- Liquid line solenoid valve with 230-volt coil (shipped loose)
- Compressor circuit breaker
- Compressor time delay relay
- Variable speed EC motors as head pressure control (see Bulletin K40-HPC-AG or https://docs.k-rp.com/1101110.pdf for details)
- QuickVac Evacuation and Refrigerant Recovery Valves
- **SmartSpeed Fan Motor Technology on models using chassis 3 (see page 13)**
- Pump down toggle switch
- Electric defrost kit with mechanical time clock and contactors, as required
- Lockout control circuit relay (for liquid solenoid valve)
- Disconnect switch (fused or non-fused)
- Electronic phase / voltage monitor
- Leg kit or air discharge hood

PRE-SELECTED FACTORY MOUNTED OPTION PACKAGES

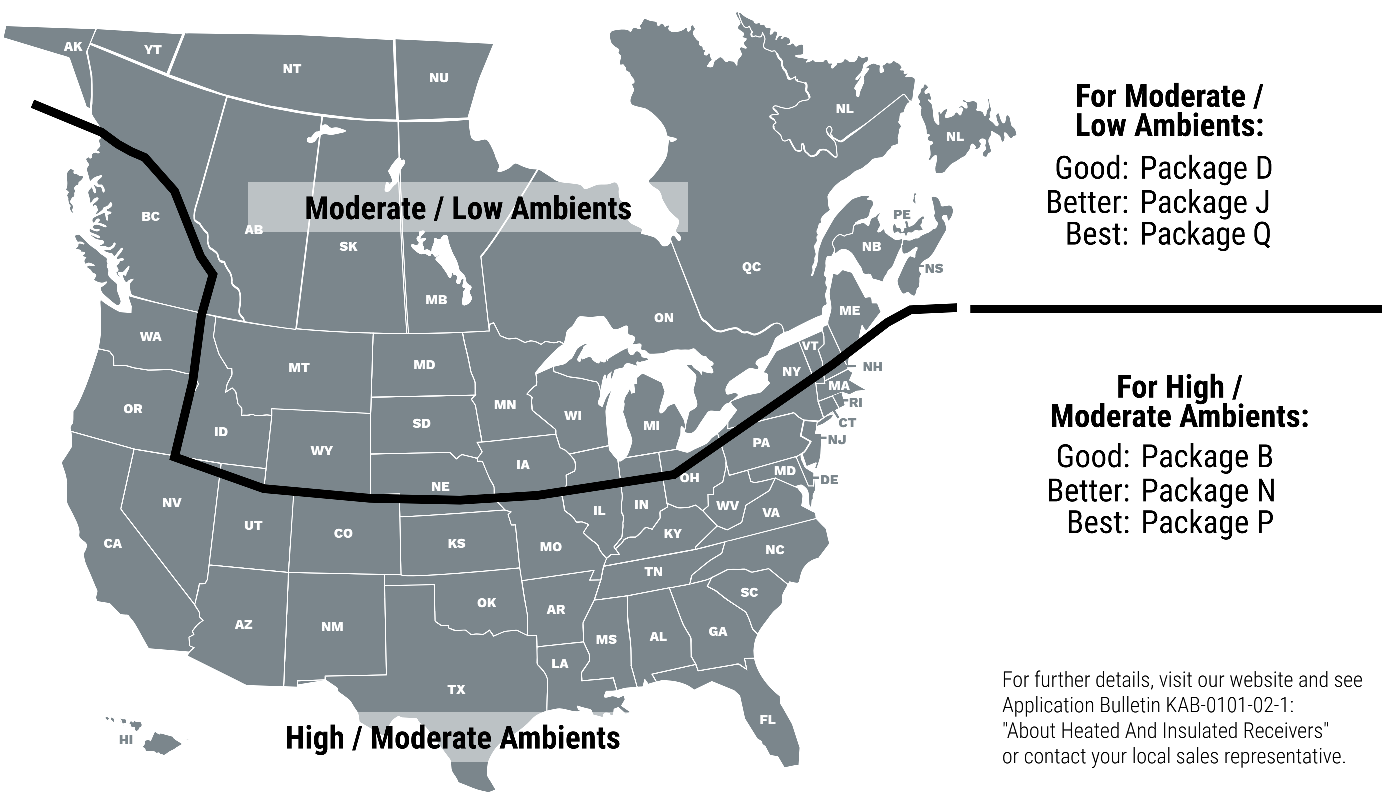
	For High / Moderate Ambients	For Moderate / Low Ambients
GOOD	**Package B**: + Liquid Line Filter Drier[1] & Sight Glass	**Package D**: + Liquid Line Filter Drier[1] & Sight Glass + Heated and Insulated Receiver
BETTER	**Package N**: + Liquid Line Filter Drier[1] & Sight Glass + Suction Accumulator w/o Heat Exchanger	**Package J**: + Liquid Line Filter Drier[1] & Sight Glass + Suction Accumulator w/o Heat Exchanger + Heated and Insulated Receiver
BEST	**Package P**: + Liquid Line Filter Drier[1] & Sight Glass + Suction Accumulator w/o Heat Exchanger + Suction Filter[2] + Non-Fused Disconnect	**Package Q**: + Liquid Line Filter Drier[1] & Sight Glass + Suction Accumulator w/o Heat Exchanger + Suction Filter[2] + Non-Fused Disconnect + Heated and Insulated Receiver

[1] Liquid Line Filter Drier: Sealed on ALL One Fan Model Units, Replaceable on ALL Two Fan Model Units.

[2] Suction Filter: Sealed on ALL One Fan Model Units, Replaceable on ALL Two Fan Model Units.

For information on Evaporator Defrost Kits and Fuse Packages, visit www.k-rp.com/dfk

RECOMMENDATIONS FOR SELECTING FACTORY MOUNTED OPTION PACKAGES



For Moderate / Low Ambients:

Good: Package D
Better: Package J
Best: Package Q

For High / Moderate Ambients:

Good: Package B
Better: Package N
Best: Package P

For further details, visit our website and see Application Bulletin KAB-0101-02-1: "About Heated And Insulated Receivers" or contact your local sales representative.

US Patent No. 9,297,567

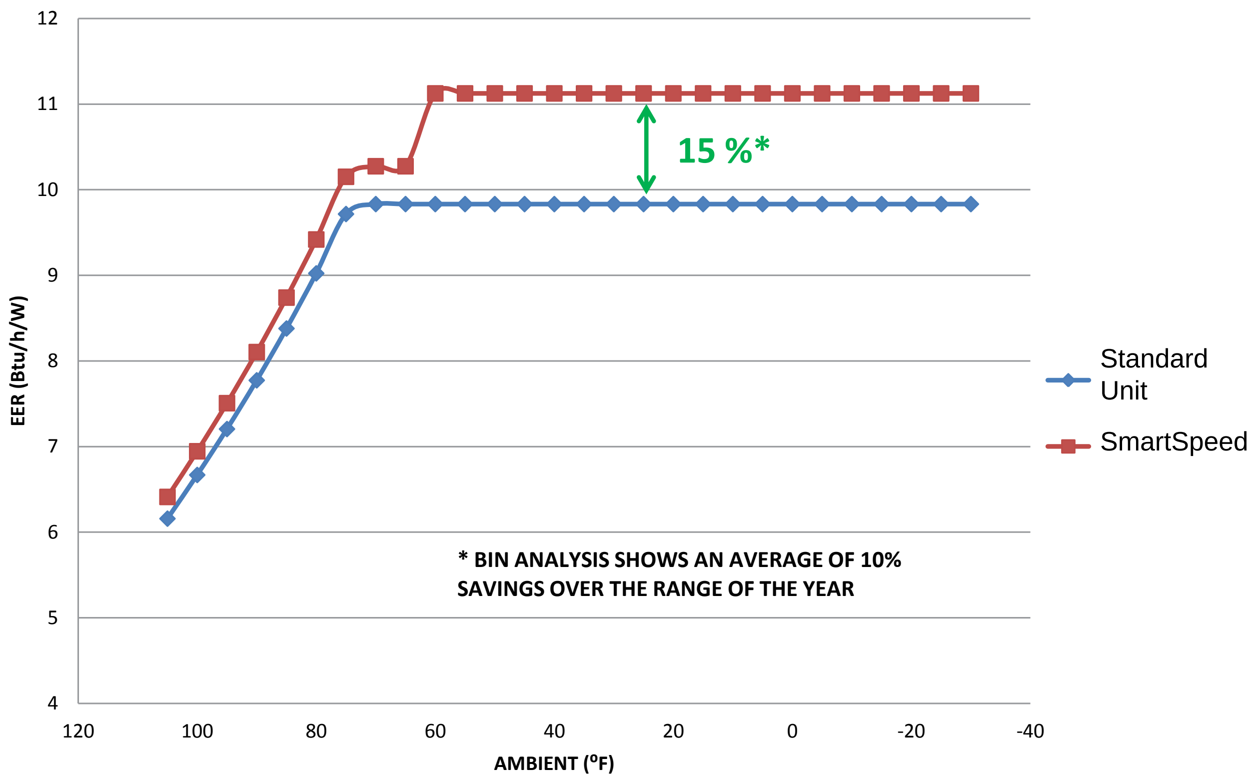
SMARTSPEED™
FAN MOTOR TECHNOLOGY

2010 AHR Expo Innovation Awards — Value, Impact, Application — Honorable Mention

DESIGN FEATURES

- Standard on models using chassis 1 and 2 (optional on chassis 3)
- No special controls required. No worries about wind or cold climates.
- Ambients above 55°F - EC motor operates at full speed, crankcase heater and heated + insulated receiver disabled from control circuit
- Ambients below 55°F - EC motor operates at low speed, crankcase heater and heated + insulated receiver enabled from control circuit

Condensing Unit EER - Standard Unit vs. SmartSpeed



Refer to Pages 17 For Wiring Details

Condensing Unit with SmartSpeed Power Consumption Per Motor		
Chassis Size (see pages 12 - 13)	**Ambients above 55°F.** Fan Full Speed. Crankcase and Receiver Heaters Off.	**Ambients below 55°F.** Fan Low Speed. Crankcase and Receiver Heaters On.
1	102 W	19 W
2	168 W	37 W
3	362 W	76 W

R404A R507 Medium Temperature

Model KEH	Saturated Suction Temperature °F	°C	Capacity BTU/h — Refrigerant: R404A R507 — Ambient Temperature 85°F (29.4°C) Mean	85°F Dew	90°F (32.2°C) Mean	90°F Dew	95°F (35°C) Mean	95°F Dew	100°F (37.8°C) Mean	100°F Dew	105°F (40.6°C) Mean	105°F Dew	110°F (43.3°C) Mean	110°F Dew
	40	4.4	N/A	9340	N/A	8880	N/A	8420	N/A	7950	N/A	7480	N/A	7010
	35	1.7	N/A	8610	N/A	8190	N/A	7770	N/A	7340	N/A	6910	N/A	6470
KEHT006M8	30	-1.1	N/A	7920	N/A	7530	N/A	7140	N/A	6750	N/A	6350	N/A	5950
	25	-3.9	N/A	7240	N/A	6890	N/A	6540	N/A	6180	N/A	5810	N/A	5450
Compressor	20	-6.7	N/A	6600	N/A	6280	N/A	5960	N/A	5630	N/A	5300	N/A	4970
Model	15	-9.4	N/A	5990	N/A	5700	N/A	5410	N/A	5110	N/A	4810	N/A	4510
AK5410Z	10	-12.2	N/A	5410	N/A	5150	N/A	4890	N/A	4620	N/A	4350	N/A	4070
	5	-15.0	N/A	4870	N/A	4630	N/A	4390	N/A	4150	N/A	3900	N/A	3650
	0	-17.8	N/A	4350	N/A	4140	N/A	3920	N/A	3700	N/A	3480	N/A	3250
	40	4.4	N/A	20400	N/A	19200	N/A	18100	N/A	16900	N/A	15800	N/A	14700
	35	1.7	N/A	18900	N/A	17800	N/A	16800	N/A	15700	N/A	14600	N/A	13600
KEHA015M8	30	-1.1	N/A	17400	N/A	16400	N/A	15400	N/A	14500	N/A	13500	N/A	12500
	25	-3.9	N/A	16000	N/A	15000	N/A	14100	N/A	13200	N/A	12300	N/A	11400
Compressor	20	-6.7	N/A	14500	N/A	13600	N/A	12800	N/A	11900	N/A	11100	N/A	10300
Model	15	-9.4	N/A	13000	N/A	12300	N/A	11500	N/A	10700	N/A	9920	N/A	9140
CS10K6E	10	-12.2	N/A	11600	N/A	10900	N/A	10200	N/A	9470	N/A	8750	N/A	8030
	5	-15.0	N/A	10200	N/A	9580	N/A	8920	N/A	8270	N/A	7610	N/A	6950
	0	-17.8	N/A	8900	N/A	8310	N/A	7710	N/A	7110	N/A	6510	N/A	5900
	40	4.4	N/A	23800	N/A	22600	N/A	21300	N/A	20100	N/A	18800	N/A	17500
	35	1.7	N/A	21800	N/A	20600	N/A	19500	N/A	18300	N/A	17100	N/A	15900
KEHA020M8	30	-1.1	N/A	19900	N/A	18800	N/A	17700	N/A	16600	N/A	15500	N/A	14400
	25	-3.9	N/A	18000	N/A	17000	N/A	16000	N/A	15000	N/A	14000	N/A	13000
Compressor	20	-6.7	N/A	16300	N/A	15400	N/A	14400	N/A	13500	N/A	12600	N/A	11600
Model	15	-9.4	N/A	14600	N/A	13800	N/A	12900	N/A	12100	N/A	11200	N/A	10300
CS12K6E	10	-12.2	N/A	13100	N/A	12300	N/A	11500	N/A	10700	N/A	9910	N/A	9130
	5	-15.0	N/A	11600	N/A	10800	N/A	10100	N/A	9400	N/A	8680	N/A	7970
	0	-17.8	N/A	10200	N/A	9490	N/A	8820	N/A	8160	N/A	7510	N/A	6860
	40	4.4	N/A	30200	N/A	28600	N/A	27000	N/A	25400	N/A	23800	N/A	22100
	35	1.7	N/A	27900	N/A	26500	N/A	25000	N/A	23500	N/A	22000	N/A	20500
KEHA025M8	30	-1.1	N/A	25700	N/A	24300	N/A	23000	N/A	21600	N/A	20200	N/A	18900
	25	-3.9	N/A	23500	N/A	22200	N/A	21000	N/A	19700	N/A	18500	N/A	17200
Compressor	20	-6.7	N/A	21300	N/A	20200	N/A	19000	N/A	17900	N/A	16800	N/A	15600
Model	15	-9.4	N/A	19200	N/A	18100	N/A	17100	N/A	16100	N/A	15000	N/A	14000
CS14K6E	10	-12.2	N/A	17100	N/A	16200	N/A	15300	N/A	14300	N/A	13400	N/A	12400
	5	-15.0	N/A	15100	N/A	14300	N/A	13500	N/A	12600	N/A	11800	N/A	10900
	0	-17.8	N/A	13300	N/A	12500	N/A	11800	N/A	11000	N/A	10200	N/A	9490
	40	4.4	N/A	37200	N/A	35200	N/A	33200	N/A	31100	N/A	29100	N/A	27100
	35	1.7	N/A	34600	N/A	32700	N/A	30800	N/A	28900	N/A	27000	N/A	25100
KEHA030M8	30	-1.1	N/A	32000	N/A	30200	N/A	28500	N/A	26700	N/A	24900	N/A	23200
	25	-3.9	N/A	29300	N/A	27700	N/A	26000	N/A	24400	N/A	22800	N/A	21100
Compressor	20	-6.7	N/A	26700	N/A	25100	N/A	23600	N/A	22100	N/A	20600	N/A	19100
Model	15	-9.4	N/A	24000	N/A	22600	N/A	21200	N/A	19800	N/A	18400	N/A	17000
CS18K6E	10	-12.2	N/A	21400	N/A	20100	N/A	18800	N/A	17500	N/A	16300	N/A	15000
	5	-15.0	N/A	18800	N/A	17700	N/A	16500	N/A	15300	N/A	14200	N/A	13100
	0	-17.8	N/A	16400	N/A	15300	N/A	14300	N/A	13200	N/A	12200	N/A	11200
	40	4.4	N/A	44700	N/A	42300	N/A	39900	N/A	37600	N/A	35300	N/A	33000
	35	1.7	N/A	40300	N/A	38100	N/A	35900	N/A	33700	N/A	31600	N/A	29500
KEHA035M8	30	-1.1	N/A	36300	N/A	34200	N/A	32200	N/A	30200	N/A	28200	N/A	26300
	25	-3.9	N/A	32600	N/A	30600	N/A	28800	N/A	26900	N/A	25100	N/A	23300
Compressor	20	-6.7	N/A	29100	N/A	27400	N/A	25600	N/A	23900	N/A	22300	N/A	20600
Model	15	-9.4	N/A	26000	N/A	24400	N/A	22800	N/A	21300	N/A	19700	N/A	18200
CS20K6E	10	-12.2	N/A	23100	N/A	21700	N/A	20200	N/A	18800	N/A	17400	N/A	16000
	5	-15.0	N/A	20500	N/A	19200	N/A	17900	N/A	16600	N/A	15300	N/A	14000
	0	-17.8	N/A	18100	N/A	16900	N/A	15700	N/A	14500	N/A	13300	N/A	12100

N/A = Mean rating capacities do not apply to R404A/R507.

R407A Medium Temperature

Model KEH	Saturated Suction Temperature		Capacity BTU/h Refrigerant: R407A Ambient Temperature											
			85°F *(29.4°C)*		**90°F** *(32.2°C)*		**95°F** *(35°C)*		**100°F** *(37.8°C)*		**105°F** *(40.6°C)*		**110°F** *(43.3°C)*	
	°F	°C	**Mean**	*Dew*	**Mean**	*Dew*	**Mean**	*Dew*	**Mean**	*Dew*	**Mean**	*Dew*	**Mean**	*Dew*
	30	*-1.1*	**16800**	*16200*	**15900**	*15300*	**15000**	*14400*	**14000**	*13500*	**13100**	*12600*	**12200**	*11700*
KEHA015M8	**25**	*-3.9*	**15000**	*14400*	**14000**	*13500*	**13200**	*12700*	**12400**	*11900*	**11500**	*11100*	**10700**	*10300*
	20	*-6.7*	**13100**	*12600*	**12400**	*11900*	**11500**	*11100*	**10800**	*10400*	**10000**	*9630*	**9260**	*8900*
Compressor	**15**	*-9.4*	**11400**	*11000*	**10700**	*10300*	**10000**	*9620*	**9300**	*8940*	**8590**	*8260*	**7890**	*7590*
Model	**10**	*-12.2*	**9860**	*9480*	**9190**	*8840*	**8540**	*8210*	**7880**	*7580*	**7240**	*6960*	**6600**	*6350*
CS10K6E	**5**	*-15.0*	**8370**	*8050*	**7760**	*7460*	**7160**	*6880*	**6550**	*6300*	**5960**	*5730*	**5380**	*5170*
	0	*-17.8*	**6990**	*6720*	**6430**	*6180*	**5860**	*5630*	**5300**	*5100*	**4750**	*4570*	**4220**	*4060*
	30	*-1.1*	**18800**	*18100*	**17900**	*17200*	**16800**	*16200*	**15800**	*15200*	**14900**	*14300*	**13800**	*13300*
KEHA020M8	**25**	*-3.9*	**16700**	*16100*	**15800**	*15200*	**14900**	*14300*	**13900**	*13400*	**13100**	*12600*	**12200**	*11700*
	20	*-6.7*	**14800**	*14200*	**13900**	*13400*	**13100**	*12600*	**12300**	*11800*	**11400**	*11000*	**10600**	*10200*
Compressor	**15**	*-9.4*	**12900**	*12400*	**12100**	*11600*	**11300**	*10900*	**10600**	*10200*	**9850**	*9470*	**9120**	*8770*
Model	**10**	*-12.2*	**11100**	*10700*	**10400**	*10000*	**9720**	*9350*	**9070**	*8720*	**8410**	*8090*	**7770**	*7470*
CS12K6E	**5**	*-15.0*	**9440**	*9080*	**8840**	*8500*	**8250**	*7930*	**7660**	*7370*	**7100**	*6830*	**6550**	*6300*
	0	*-17.8*	**7970**	*7660*	**7430**	*7140*	**6920**	*6650*	**6410**	*6160*	**5930**	*5700*	**5460**	*5250*
	30	*-1.1*	**23800**	*22900*	**22700**	*21800*	**21500**	*20700*	**20400**	*19600*	**19100**	*18400*	**18000**	*17300*
KEHA025M8	**25**	*-3.9*	**21200**	*20400*	**20100**	*19300*	**19000**	*18300*	**17900**	*17200*	**16800**	*16200*	**15700**	*15100*
	20	*-6.7*	**18600**	*17900*	**17600**	*16900*	**16500**	*15900*	**15600**	*15000*	**14600**	*14000*	**13500**	*13000*
Compressor	**15**	*-9.4*	**16100**	*15500*	**15200**	*14600*	**14200**	*13700*	**13300**	*12800*	**12400**	*11900*	**11500**	*11100*
Model	**10**	*-12.2*	**13700**	*13200*	**12900**	*12400*	**12100**	*11600*	**11200**	*10800*	**10500**	*10100*	**9770**	*9390*
CS14K6E	**5**	*-15.0*	**11600**	*11200*	**10900**	*10500*	**10200**	*9780*	**9500**	*9130*	**8860**	*8520*	**8280**	*7960*
	0	*-17.8*	**9710**	*9340*	**9120**	*8770*	**8560**	*8230*	**8040**	*7730*	**7570**	*7280*	**7170**	*6890*
	30	*-1.1*	**29800**	*28700*	**28400**	*27300*	**26800**	*25800*	**25400**	*24400*	**23900**	*23000*	**22500**	*21600*
KEHA030M8	**25**	*-3.9*	**26300**	*25300*	**25000**	*24000*	**23600**	*22700*	**22200**	*21300*	**20800**	*20000*	**19600**	*18800*
	20	*-6.7*	**23000**	*22100*	**21700**	*20900*	**20500**	*19700*	**19200**	*18500*	**18000**	*17300*	**16800**	*16200*
Compressor	**15**	*-9.4*	**20000**	*19200*	**18800**	*18100*	**17700**	*17000*	**16600**	*16000*	**15500**	*14900*	**14500**	*13900*
Model	**10**	*-12.2*	**17300**	*16600*	**16200**	*15600*	**15200**	*14600*	**14100**	*13600*	**13200**	*12700*	**12300**	*11800*
CS18K6E	**5**	*-15.0*	**14700**	*14100*	**13800**	*13300*	**12900**	*12400*	**12100**	*11600*	**11200**	*10800*	**10400**	*10000*
	0	*-17.8*	**12400**	*11900*	**11600**	*11200*	**10800**	*10400*	**10100**	*9730*	**9430**	*9070*	**8800**	*8460*
	30	*-1.1*	**33000**	*31700*	**31300**	*30100*	**29700**	*28600*	**28100**	*27000*	**26500**	*25500*	**24900**	*23900*
KEHA035M8	**25**	*-3.9*	**29100**	*28000*	**27700**	*26600*	**26200**	*25200*	**24800**	*23800*	**23300**	*22400*	**21800**	*21000*
	20	*-6.7*	**25700**	*24700*	**24400**	*23500*	**23100**	*22200*	**21700**	*20900*	**20400**	*19600*	**19000**	*18300*
Compressor	**15**	*-9.4*	**22600**	*21700*	**21400**	*20600*	**20200**	*19400*	**18900**	*18200*	**17700**	*17000*	**16500**	*15900*
Model	**10**	*-12.2*	**19800**	*19000*	**18600**	*17900*	**17500**	*16800*	**16400**	*15800*	**15300**	*14700*	**14100**	*13600*
CS20K6E	**5**	*-15.0*	**17100**	*16400*	**16000**	*15400*	**15000**	*14400*	**13900**	*13400*	**12900**	*12400*	**11900**	*11400*
	0	*-17.8*	**14600**	*14000*	**13600**	*13100*	**12600**	*12100*	**11500**	*11100*	**10600**	*10200*	**9550**	*9180*

NOTE: Mean temperature is the average temperature between the saturated suction vapor temperature (dew point) and the temperature feeding the evaporator.
To be consistent with the evaporator selection method, Mean rating capacities are recommended.

R448A Medium Temperature

Model KEH	Saturated Suction Temperature		Capacity BTU/h Refrigerant: R448A Ambient Temperature											
			85°F *(29.4°C)*		90°F *(32.2°C)*		95°F *(35°C)*		100°F *(37.8°C)*		105°F *(40.6°C)*		110°F *(43.3°C)*	
	° F	*° C*	Mean	*Dew*	Mean	*Dew*	Mean	*Dew*	Mean	*Dew*	Mean	*Dew*	Mean	*Dew*
	30	*-1.1*	***17400***	***16700***	***16400***	***15800***	***15500***	***14900***	***14700***	***14100***	***13700***	***13200***	***12800***	***12300***
KEHA015M8	**25**	*-3.9*	**15500**	*14900*	**14700**	*14100*	**13700**	*13200*	**12900**	*12400*	**12100**	*11600*	**11200**	*10800*
	20	*-6.7*	**13600**	*13100*	**12900**	*12400*	**12100**	*11600*	**11300**	*10900*	**10500**	*10100*	**9800**	*9420*
Compressor	**15**	*-9.4*	**12000**	*11500*	**11200**	*10800*	**10500**	*10100*	**9810**	*9430*	**9110**	*8760*	**8420**	*8100*
Model	**10**	*-12.2*	**10400**	*9960*	**9700**	*9330*	**9050**	*8700*	**8400**	*8080*	**7760**	*7460*	**7130**	*6860*
CS10K6E	**5**	*-15.0*	**8880**	*8540*	**8280**	*7960*	**7680**	*7380*	**7080**	*6810*	**6500**	*6250*	**5930**	*5700*
	0	*-17.8*	**7520**	*7230*	**6960**	*6690*	**6410**	*6160*	**5870**	*5640*	**5320**	*5120*	**4800**	*4620*
	30	*-1.1*	**19300**	*18600*	**18400**	*17700*	**17400**	*16700*	**16400**	*15800*	**15400**	*14800*	**14500**	*13900*
KEHA020M8	**25**	*-3.9*	**17300**	*16600*	**16300**	*15700*	**15400**	*14800*	**14600**	*14000*	**13600**	*13100*	**12700**	*12200*
	20	*-6.7*	**15200**	*14600*	**14400**	*13800*	**13500**	*13000*	**12800**	*12300*	**12000**	*11500*	**11100**	*10700*
Compressor	**15**	*-9.4*	**13300**	*12800*	**12600**	*12100*	**11900**	*11400*	**11100**	*10700*	**10400**	*9980*	**9650**	*9280*
Model	**10**	*-12.2*	**11500**	*11100*	**10900**	*10500*	**10200**	*9840*	**9590**	*9220*	**8950**	*8610*	**8330**	*8010*
CS12K6E	**5**	*-15.0*	**9940**	*9560*	**9360**	*9000*	**8800**	*8460*	**8240**	*7920*	**7700**	*7400*	**7170**	*6890*
	0	*-17.8*	**8510**	*8180*	**8010**	*7700*	**7530**	*7240*	**7060**	*6790*	**6610**	*6360*	**6190**	*5950*
	30	*-1.1*	**25000**	*24000*	**23800**	*22900*	**22600**	*21700*	**21400**	*20600*	**20200**	*19400*	**19000**	*18300*
KEHA025M8	**25**	*-3.9*	**22200**	*21300*	**21100**	*20300*	**20000**	*19200*	**18800**	*18100*	**17700**	*17000*	**16600**	*16000*
	20	*-6.7*	**19400**	*18700*	**18400**	*17700*	**17400**	*16700*	**16400**	*15800*	**15400**	*14800*	**14400**	*13800*
Compressor	**15**	*-9.4*	**17000**	*16300*	**15900**	*15300*	**15000**	*14400*	**14000**	*13500*	**13200**	*12700*	**12300**	*11800*
Model	**10**	*-12.2*	**14500**	*13900*	**13600**	*13100*	**12800**	*12300*	**12000**	*11500*	**11200**	*10800*	**10400**	*10000*
CS14K6E	**5**	*-15.0*	**12300**	*11800*	**11500**	*11100*	**10800**	*10400*	**10200**	*9760*	**9510**	*9140*	**8910**	*8570*
	0	*-17.8*	**10300**	*9950*	**9740**	*9370*	**9180**	*8830*	**8650**	*8320*	**8170**	*7860*	**7760**	*7460*
	30	*-1.1*	**30800**	*29600*	**29100**	*28000*	**27600**	*26500*	**26000**	*25000*	**24500**	*23600*	**23100**	*22200*
KEHA030M8	**25**	*-3.9*	**27200**	*26200*	**25800**	*24800*	**24300**	*23400*	**23000**	*22100*	**21600**	*20800*	**20400**	*19600*
	20	*-6.7*	**24100**	*23200*	**22800**	*21900*	**21400**	*20600*	**20200**	*19400*	**19000**	*18300*	**17900**	*17200*
Compressor	**15**	*-9.4*	**21200**	*20400*	**20000**	*19200*	**18800**	*18100*	**17700**	*17000*	**16500**	*15900*	**15600**	*15000*
Model	**10**	*-12.2*	**18500**	*17800*	**17400**	*16700*	**16300**	*15700*	**15300**	*14700*	**14400**	*13800*	**13400**	*12900*
CS18K6E	**5**	*-15.0*	**16000**	*15400*	**15000**	*14400*	**14000**	*13500*	**13100**	*12600*	**12300**	*11800*	**11400**	*11000*
	0	*-17.8*	**13600**	*13100*	**12700**	*12200*	**11900**	*11400*	**11000**	*10600*	**10200**	*9850*	**9560**	*9190*
	30	*-1.1*	**34000**	*32700*	**32400**	*31200*	**30800**	*29600*	**29100**	*28000*	**27600**	*26500*	**25900**	*24900*
KEHA035M8	**25**	*-3.9*	**30500**	*29300*	**29000**	*27900*	**27600**	*26500*	**26000**	*25000*	**24500**	*23600*	**23100**	*22200*
	20	*-6.7*	**27200**	*26200*	**25800**	*24800*	**24400**	*23500*	**23100**	*22200*	**21700**	*20900*	**20400**	*19600*
Compressor	**15**	*-9.4*	**24100**	*23200*	**22900**	*22000*	**21500**	*20700*	**20300**	*19500*	**19000**	*18300*	**17800**	*17100*
Model	**10**	*-12.2*	**21200**	*20400*	**20100**	*19300*	**18800**	*18100*	**17700**	*17000*	**16400**	*15800*	**15300**	*14700*
CS20K6E	**5**	*-15.0*	**18400**	*17700*	**17400**	*16700*	**16200**	*15600*	**15100**	*14500*	**14000**	*13500*	**12900**	*12400*
	0	*-17.8*	**15800**	*15200*	**14800**	*14200*	**13700**	*13200*	**12700**	*12200*	**11600**	*11200*	**10600**	*10200*

NOTE: Mean temperature is the average temperature between the saturated suction vapor temperature (dew point) and the temperature feeding the evaporator. To be consistent with the evaporator selection method, Mean rating capacities are recommended.

- For R449A, use R448A data.

R404A R507 Low Temperature

Model KEH	Saturated Suction Temperature		Capacity BTU/h Refrigerant: R404A R507 Ambient Temperature											
			85°F *(29.4°C)*		90°F *(32.2°C)*		95°F *(35°C)*		100°F *(37.8°C)*		105°F *(40.6°C)*		110°F *(43.3°C)*	
	°F	°C	Mean	Dew	Mean	Dew	Mean	Dew	Mean	Dew	Mean	Dew	Mean	Dew
KEHA006L6	**0**	-17.8	N/A	4200	N/A	4010	N/A	3810	N/A	3600	N/A	3390	N/A	3170
	-5	-20.6	N/A	3740	N/A	3560	N/A	3380	N/A	3190	N/A	3000	N/A	2800
	-10	-23.3	N/A	3300	N/A	3140	N/A	2980	N/A	2810	N/A	2630	N/A	2450
Compressor	**-15**	-26.1	N/A	2890	N/A	2750	N/A	2600	N/A	2450	N/A	2290	N/A	2130
Model	**-20**	-28.9	N/A	2510	N/A	2380	N/A	2250	N/A	2110	N/A	1970	N/A	1830
RFT22C1E	**-25**	-31.7	N/A	2150	N/A	2040	N/A	1920	N/A	1800	N/A	1680	N/A	1560
	-30	-34.4	N/A	1820	N/A	1720	N/A	1620	N/A	1520	N/A	1420	N/A	1310
KEHA008L6	**0**	-17.8	N/A	4940	N/A	4700	N/A	4460	N/A	4220	N/A	3980	N/A	3740
	-5	-20.6	N/A	4410	N/A	4200	N/A	3980	N/A	3760	N/A	3550	N/A	3330
	-10	-23.3	N/A	3920	N/A	3720	N/A	3530	N/A	3330	N/A	3130	N/A	2940
Compressor	**-15**	-26.1	N/A	3450	N/A	3280	N/A	3100	N/A	2930	N/A	2750	N/A	2570
Model	**-20**	-28.9	N/A	3020	N/A	2860	N/A	2700	N/A	2550	N/A	2390	N/A	2230
RFT26C1E	**-25**	-31.7	N/A	2610	N/A	2470	N/A	2330	N/A	2190	N/A	2060	N/A	1920
	-30	-34.4	N/A	2240	N/A	2110	N/A	1990	N/A	1870	N/A	1750	N/A	1630
KEHA010L6	**0**	-17.8	N/A	8380	N/A	7790	N/A	7190	N/A	6590	N/A	5990	N/A	5400
	-5	-20.6	N/A	7360	N/A	6820	N/A	6280	N/A	5740	N/A	5200	N/A	4670
	-10	-23.3	N/A	6430	N/A	5950	N/A	5460	N/A	4980	N/A	4500	N/A	4020
Compressor	**-15**	-26.1	N/A	5570	N/A	5140	N/A	4710	N/A	4280	N/A	3850	N/A	3420
Model	**-20**	-28.9	N/A	4770	N/A	4390	N/A	4000	N/A	3610	N/A	3230	N/A	2860
CF04K6E	**-25**	-31.7	N/A	4000	N/A	3660	N/A	3310	N/A	2970	N/A	2640	N/A	2310
	-30	-34.4	N/A	3230	N/A	2920	N/A	2620	N/A	2320	N/A	2020	N/A	1750
KEHA015L6	**0**	-17.8	N/A	11100	N/A	10400	N/A	9750	N/A	9100	N/A	8440	N/A	7780
	-5	-20.6	N/A	9940	N/A	9370	N/A	8760	N/A	8170	N/A	7570	N/A	6970
	-10	-23.3	N/A	8860	N/A	8320	N/A	7770	N/A	7220	N/A	6690	N/A	6150
Compressor	**-15**	-26.1	N/A	7770	N/A	7270	N/A	6790	N/A	6300	N/A	5810	N/A	5330
Model	**-20**	-28.9	N/A	6710	N/A	6260	N/A	5820	N/A	5390	N/A	4960	N/A	4540
CF06K6E	**-25**	-31.7	N/A	5690	N/A	5290	N/A	4900	N/A	4520	N/A	4150	N/A	3790
	-30	-34.4	N/A	4750	N/A	4390	N/A	4050	N/A	3710	N/A	3400	N/A	3110
KEHA020L6	**0**	-17.8	N/A	11700	N/A	11000	N/A	10300	N/A	9640	N/A	8950	N/A	8250
	-5	-20.6	N/A	10500	N/A	9880	N/A	9250	N/A	8630	N/A	8000	N/A	7370
	-10	-23.3	N/A	9320	N/A	8750	N/A	8180	N/A	7610	N/A	7040	N/A	6480
Compressor	**-15**	-26.1	N/A	8150	N/A	7630	N/A	7120	N/A	6610	N/A	6100	N/A	5600
Model	**-20**	-28.9	N/A	7020	N/A	6550	N/A	6090	N/A	5640	N/A	5190	N/A	4760
CF06K6E	**-25**	-31.7	N/A	5950	N/A	5530	N/A	5110	N/A	4720	N/A	4330	N/A	3960
	-30	-34.4	N/A	4950	N/A	4570	N/A	4210	N/A	3870	N/A	3540	N/A	3230
KEHA025L6	**0**	-17.8	N/A	17900	N/A	16900	N/A	15900	N/A	14900	N/A	13900	N/A	12900
	-5	-20.6	N/A	16100	N/A	15100	N/A	14200	N/A	13300	N/A	12400	N/A	11500
	-10	-23.3	N/A	14200	N/A	13400	N/A	12500	N/A	11700	N/A	10900	N/A	10100
Compressor	**-15**	-26.1	N/A	12400	N/A	11700	N/A	10900	N/A	10200	N/A	9450	N/A	8730
Model	**-20**	-28.9	N/A	10700	N/A	10000	N/A	9340	N/A	8700	N/A	8050	N/A	7420
CF09K6E	**-25**	-31.7	N/A	9030	N/A	8430	N/A	7860	N/A	7290	N/A	6730	N/A	6190
	-30	-34.4	N/A	7480	N/A	6970	N/A	6470	N/A	5990	N/A	5520	N/A	5060

N/A = Mean rating capacities do not apply to R404A/R507.

Standard Models

Model KEH		Compressor Model No.	Power Supply	Compressor		Condenser Fan Motor				Unit	
				RLA	LRA	Quantity	Type	Watts	FLA	MCA	MOP
KEHT006M8-*	S2D	AK4510Z-NA3C	208-230/1/60	5.8	29.9	1	ECM †	100	1.0	8.3	15
KEHA015M8-*	S2D	CS10K6E-PFV	208-230/1/60	9.8	56.0	1	ECM †	175	2.0	14.3	20
	T3D	CS10K6E-TF5	208-230/3/60	6.7	51.0	1	ECM †	175	2.0	10.4	15
	T4D	CS10K6E-TFD	460/3/60**	3.2	25.0	1	ECM †	175	1.1	5.1	15
KEHA020M8-*	S2D	CS12K6E-PFV	208-230/1/60	9.8	56.0	1	ECM †	175	2.0	14.3	20
	T3D	CS12K6E-TF5	208-230/3/60	6.7	51.0	1	ECM †	175	2.0	10.4	15
KEHA025M8-*	S2D	CS14K6E-PFV	208-230/1/60	11.2	61.0	1	PSC	400	2.1	16.1	25
	T3D	CS14K6E-TF5	208-230/3/60	8.2	55.0	1	PSC	400	2.1	12.4	20
	T4D	CS14K6E-TFD	460/3/60	4.2	28.0	1	PSC	400	1.1	6.4	15
KEHA030M8-*	S2D	CS18K6E-PFV	208-230/1/60	14.4	82.0	1	PSC	400	2.1	20.0	30
	T3D	CS18K6E-TF5	208-230/3/60	9.4	65.5	1	PSC	400	2.1	13.9	20
	T4D	CS18K6E-TFD	460/3/60	4.2	33.0	1	PSC	400	1.1	6.4	15
KEHA035M8-*	S2D	CS20K6E-PFV	208-230/1/60	16.7	96.0	1	PSC	400	2.1	22.9	35
	T3D	CS20K6E-TF5	208-230/3/60	10.2	75.0	1	PSC	400	2.1	14.9	25
	T4D	CS20K6E-TFD	460/3/60	4.6	40.0	1	PSC	400	1.1	6.8	15
KEHA006L6-*	S2D	RFT22C1E-CAV	208-230/1/60	4.7	29.0	1	ECM †	100	1.0	6.9	15
KEHA008L6-*	S2D	RFT26C1E-CAV	208-230/1/60	5.8	35.5	1	ECM †	100	1.0	8.3	15
KEHA010L6-*	S2D	CF04K6E-PFV	208-230/1/60	8.6	59.2	1	ECM †	100	1.0	11.8	20
	T3D	CF04K6E-TF5	208-230/3/60	5.7	52.0	1	ECM †	100	1.0	8.1	15
KEHA015L6-*	S2D	CF06K6E-PFV	208-230/1/60	10.3	59.2	1	ECM †	100	1.0	13.8	20
	T3D	CF06K6E-TF5	208-230/3/60	6.3	52.0	1	ECM †	100	1.0	8.9	15
KEHA020L6-*	S2D	CF06K6E-PFV	208-230/1/60	10.3	59.2	1	ECM †	100	1.0	13.8	20
	T3D	CF06K6E-TF5	208-230/3/60	6.3	52.0	1	ECM †	100	1.0	8.9	15
KEHA025L6-*	S2D	CF09K6E-PFV	208-230/1/60	15.0	87.0	1	ECM †	175	2.0	20.8	35
	T3D	CF09K6E-TF5	208-230/3/60	9.2	72.2	1	ECM †	175	2.0	13.5	20
	T4D	CF09K6E-TFD	460/3/60**	4.9	35.8	1	ECM †	175	1.1	7.3	15

* I = Indoor, H = Outdoor. ** 460V Units utilize a 230V EC motor with transformer † SMARTSPEED™ EC Motor Standard
Above listed RLA value is based on UL rating method and may differ from published compressor RLA data.

Models with Optional SMARTSPEED™ EC Motors *(cont'd)*

Model KEH		Compressor Model No.	Power Supply	Compressor		Condenser Fan Motor			Unit	
				RLA	LRA	Quantity	Watts	FLA	MCA	MOP
KEHA025M8-*	S2D	CS14K6E-PFV	208-230/1/60	11.2	61.0	1	315	3.5	17.5	25
	T3D	CS14K6E-TF5	208-230/3/60	8.2	55.0	1	315	3.5	13.8	20
KEHA030M8-*	S2D	CS18K6E-PFV	208-230/1/60	14.4	82.0	1	315	3.5	21.4	35
	T3D	CS18K6E-TF5	208-230/3/60	9.4	65.5	1	315	3.5	15.3	20
KEHA035M8-*	S2D	CS20K6E-PFV	208-230/1/60	16.7	96.0	1	315	3.5	24.3	40
	T3D	CS20K6E-TF5	208-230/3/60	10.2	75.0	1	315	3.5	16.3	25

* I = Indoor, H = Outdoor. Above listed RLA value is based on UL rating method and may differ from published compressor RLA data.

Annual Walk-In Energy Factor Ratings - High/Medium Temperature

If a numerical value is listed in the table below, the following statement applies to that corresponding model: " This refrigeration system is designed and certified for use in walk-in cooler applications.”

Base Unit Model KEH	Outdoor Models			Indoor Models		
	R404A R507	R407A	R448A	R404A R507	R407A	R448A
KEHT006M8	7.60	–	–	–	–	–
KEHA015M8	7.60	7.60	7.60	–	–	–
KEHA020M8	7.60	7.60	7.60	–	–	–
KEHA025M8	7.60	7.60	7.60	5.61	5.61	5.61
KEHA030M8	7.60	7.60	7.60	5.61	–	5.61
KEHA035M8	7.60	7.60	7.60	5.61	–	5.61

— = Non-compliant model
For R449A, use R448A data.

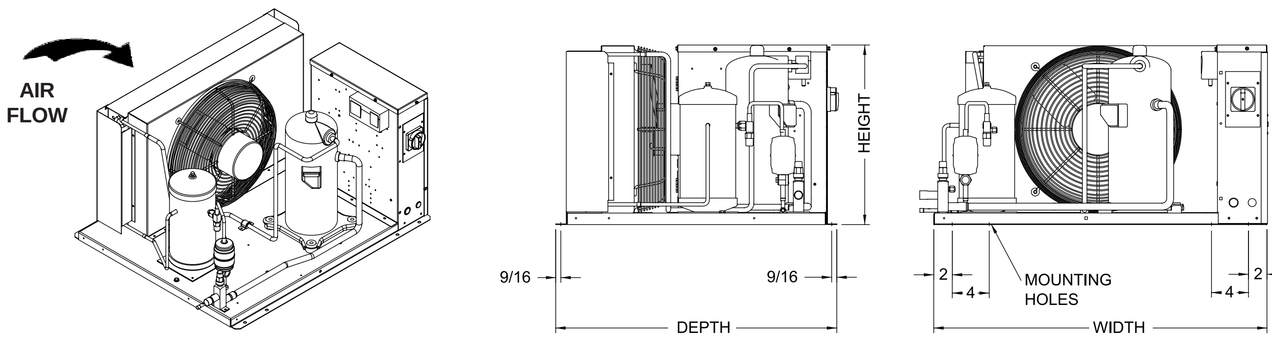
Annual Walk-In Energy Factor Ratings - Low Temperature

If a numerical value is listed in the table below, the following statement applies to that corresponding model: " This refrigeration system is designed and certified for use in walk-in freezer applications.”

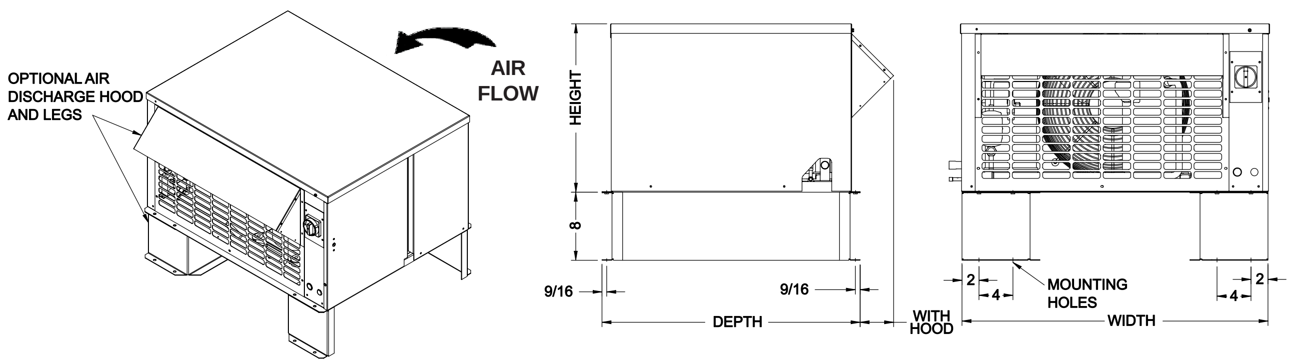
Base Unit Model KEH	Outdoor Models			Indoor Models		
	R404A R507	R407A	R448A	R404A R507	R407A	R448A
KEHA006L6	2.83	–	–	–	–	–
KEHA008L6	2.85	–	–	–	–	–
KEHA010L6	2.88	–	–	–	–	–
KEHA015L6	2.96	–	–	–	–	–
KEHA020L6	2.97	–	–	–	–	–
KEHA025L6	3.12	–	–	–	–	–

— = Non-compliant model
For R449A, use R448A data.

Drawing A: 1 Fan Models, Chassis 1 and 2

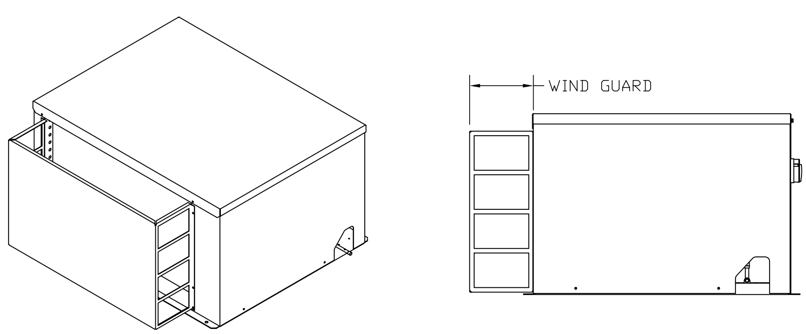


INDOOR DIMENSIONS



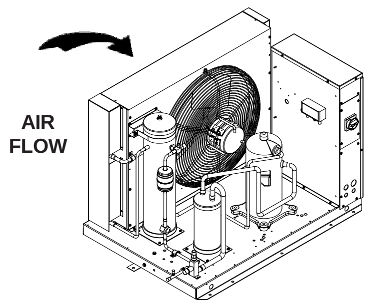
OUTDOOR DIMENSIONS

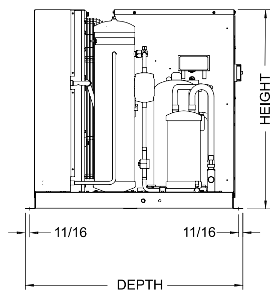
NOTE: Discharge hood, legs and wind guard are optional components

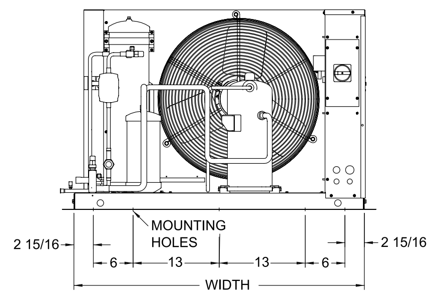


REFER TO PAGE 13 FOR
DIMENSIONAL DATA FOR SPECIFIC MODELS

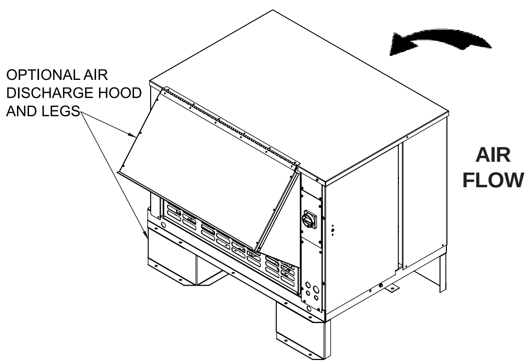
Drawing B: 1 Fan Models, Chassis 3

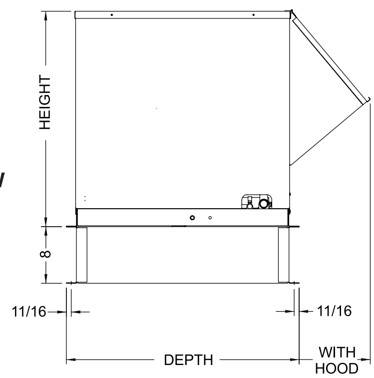


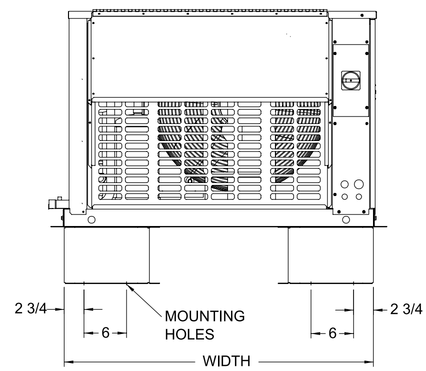




INDOOR DIMENSIONS

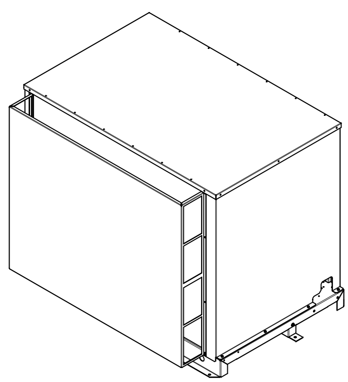


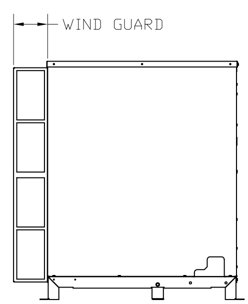




OUTDOOR DIMENSIONS

NOTE: Discharge hood, legs and wind guard are optional components





REFER TO PAGE 13 FOR DIMENSIONAL DATA FOR SPECIFIC MODELS

DIMENSIONAL DATA

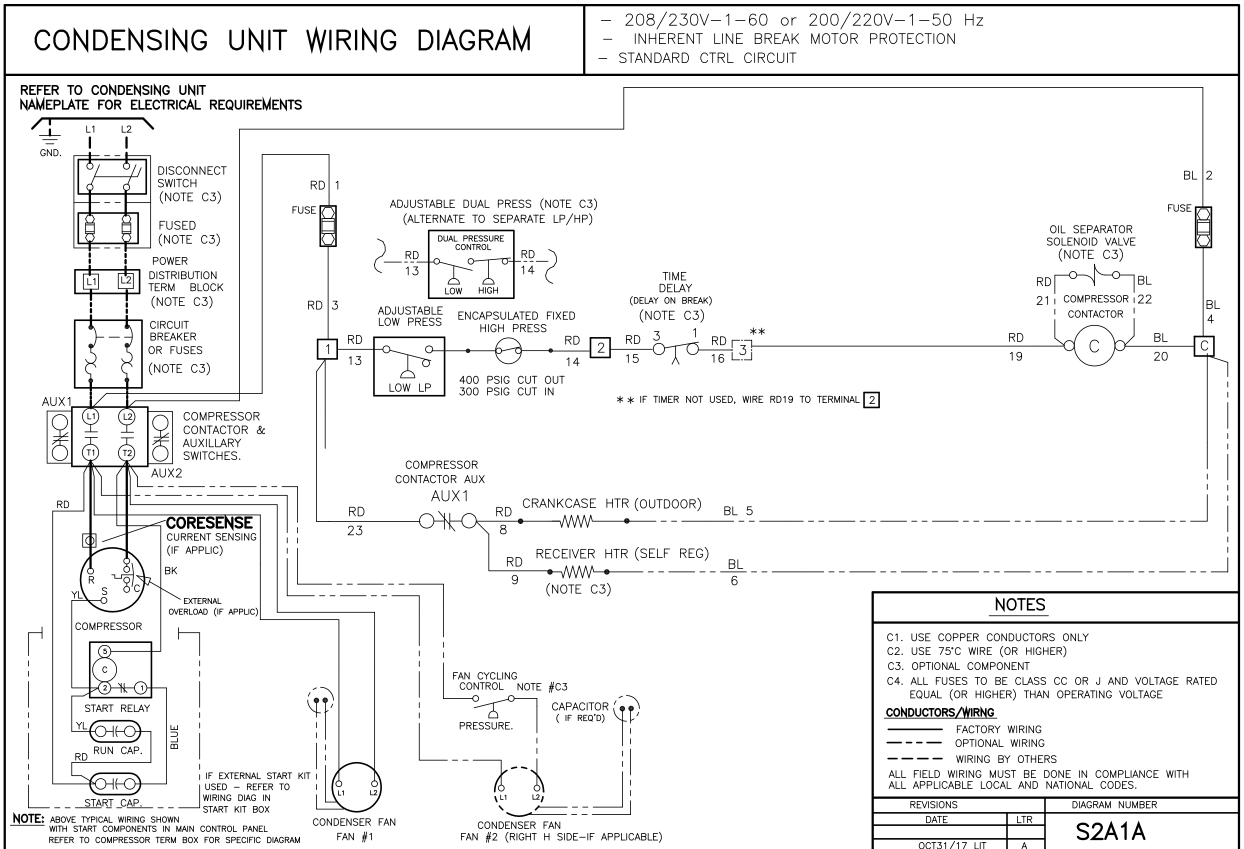
Model KEH	Chassis (see details below)	Outdoor Models Width Inches	Outdoor Models Width mm	Outdoor Models Depth Base Inches	Outdoor Models Depth Base mm	Outdoor Models Depth Hood, add: Inches	Outdoor Models Depth Hood, add: mm	Outdoor Models Height Inches	Outdoor Models Height mm	Indoor Models Width Inches	Indoor Models Width mm	Indoor Models Depth Inches	Indoor Models Depth mm	Indoor Models Height Inches	Indoor Models Height mm
KEHT006M8	1	24 7/8	*632*	30 3/8	*772*	34 3/8	*873*	19 3/8	*492*	24 5/8	*625*	30 3/8	*772*	19	*483*
KEHA015M8	2	36 3/8	*924*	30 3/8	*772*	34 3/8	*873*	19 7/8	*505*	36 1/8	*918*	30 3/8	*772*	19 1/2	*495*
KEHA020M8		36 3/8	*924*	30 3/8	*772*	34 3/8	*873*	19 7/8	*505*	36 1/8	*918*	30 3/8	*772*	19 1/2	*495*
KEHA025M8	3	43 7/8	*1114*	32 7/8	*835*	43	*1092*	30 3/8	*772*	43 7/8	*1114*	32 7/8	*835*	30 3/16	*767*
KEHA030M8		43 7/8	*1114*	32 7/8	*835*	43	*1092*	30 3/8	*772*	43 7/8	*1114*	32 7/8	*835*	30 3/16	*767*
KEHA035M8		43 7/8	*1114*	32 7/8	*835*	43	*1092*	30 3/8	*772*	43 7/8	*1114*	32 7/8	*835*	30 3/16	*767*
KEHA006L6	1	24 7/8	*632*	30 3/8	*772*	34 3/8	*873*	19 3/8	*492*	24 5/8	*625*	30 3/8	*772*	19	*483*
KEHA008L6		24 7/8	*632*	30 3/8	*772*	34 3/8	*873*	19 3/8	*492*	24 5/8	*625*	30 3/8	*772*	19	*483*
KEHA010L6		24 7/8	*632*	30 3/8	*772*	34 3/8	*873*	19 3/8	*492*	24 5/8	*625*	30 3/8	*772*	19	*483*
KEHA015L6		24 7/8	*632*	30 3/8	*772*	34 3/8	*873*	19 3/8	*492*	24 5/8	*625*	30 3/8	*772*	19	*483*
KEHA020L6		24 7/8	*632*	30 3/8	*772*	34 3/8	*873*	19 3/8	*492*	24 5/8	*625*	30 3/8	*772*	19	*483*
KEHA025L6	2	36 3/8	*924*	30 3/8	*772*	34 3/8	*873*	19 7/8	*505*	36 1/8	*918*	30 3/8	*772*	19 1/2	*495*

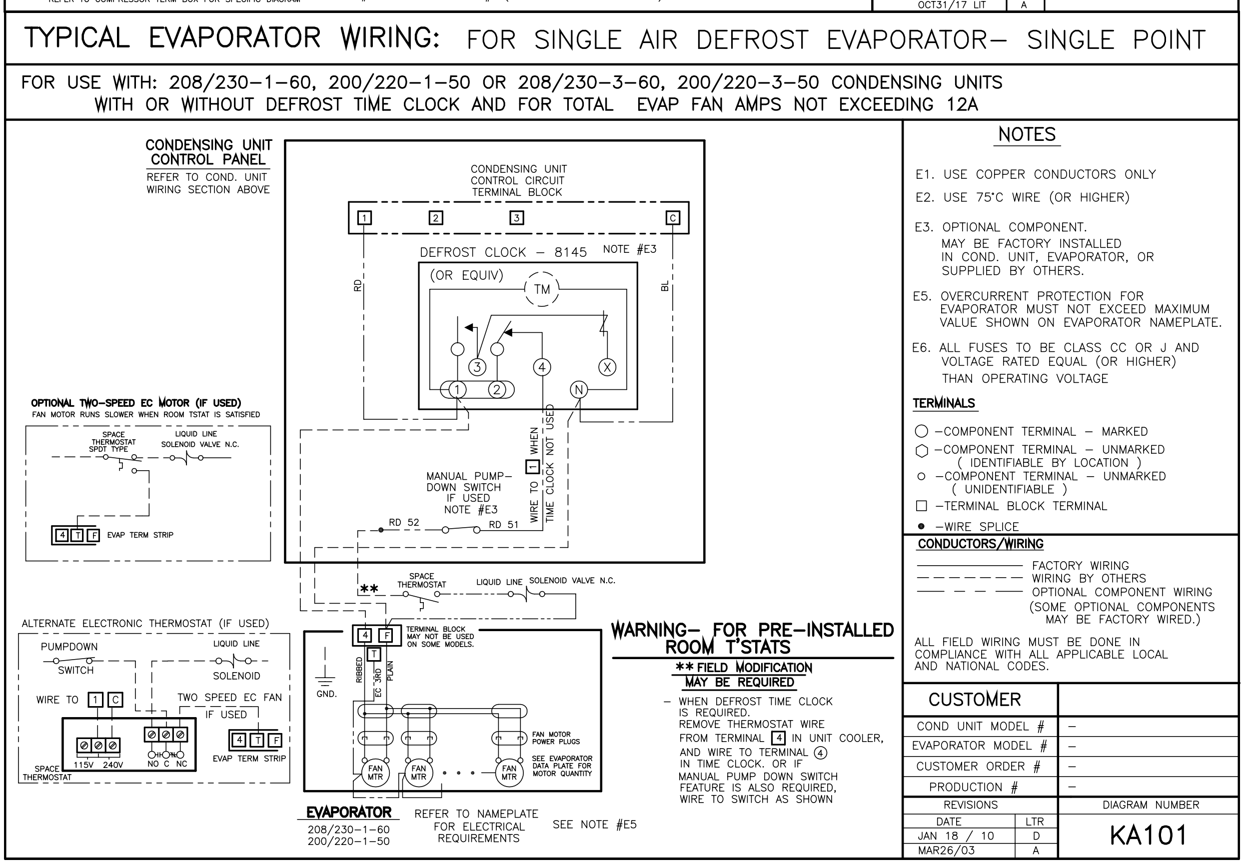
Chassis	Drawing	See Page #
1	A	11
2	A	11
3	B	12

SPECIFICATIONS

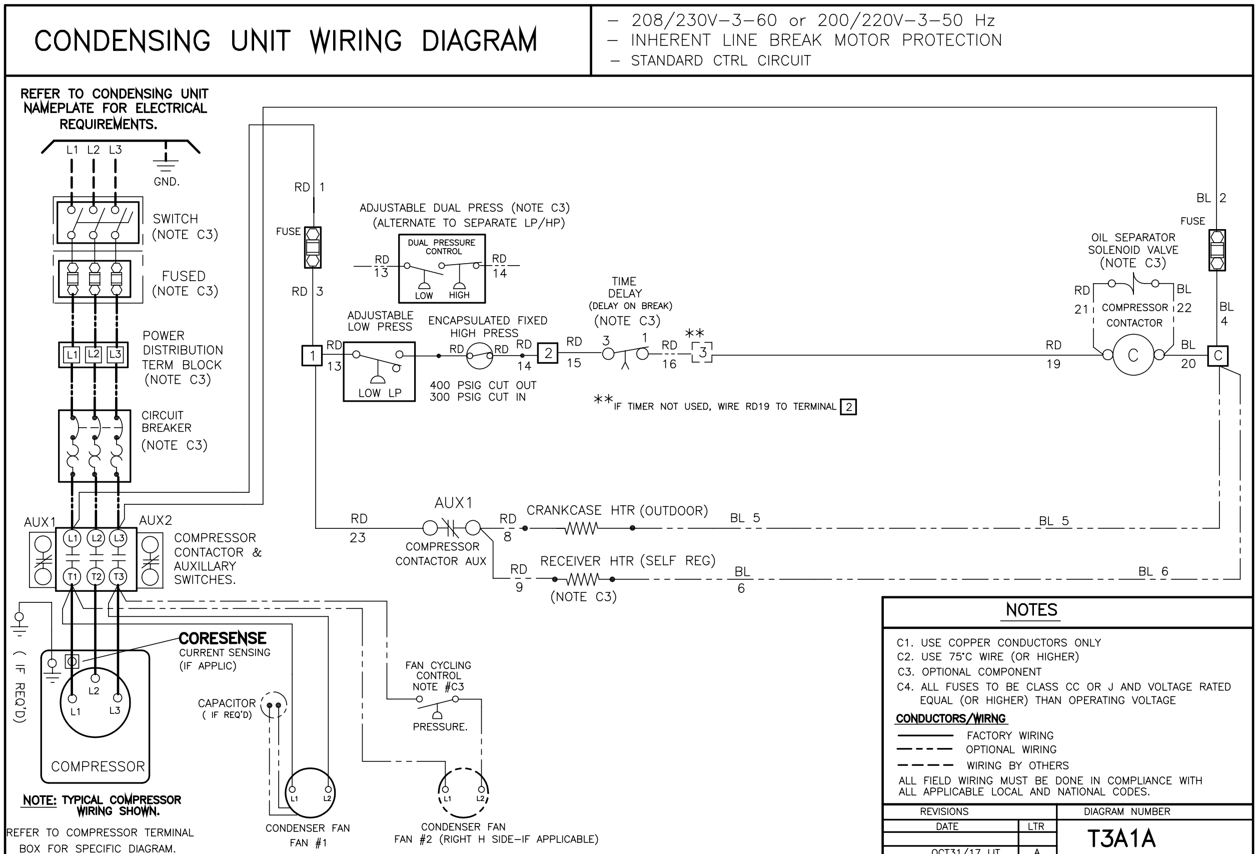
Model KEH	Unit Connections Suction (OD) Inches	Unit Connections Suction (OD) mm	Unit Connections Liquid (OD) Inches	Unit Connections Liquid (OD) mm	R404A Receiver Capacity 90% Full * Lbs.	R404A Receiver Capacity 90% Full * Kgs	Approx. Shipping Weight Outdoor Models Lbs.	Approx. Shipping Weight Outdoor Models Kgs	Approx. Shipping Weight Indoor Models Lbs.	Approx. Shipping Weight Indoor Models Kgs
KEHT006M8	5/8	*16*	3/8	*10*	5.4	*2.45*	149	*68*	127	*58*
KEHA015M8	5/8	*16*	3/8	*10*	11.3	*5.13*	279	*127*	257	*117*
KEHA020M8	5/8	*16*	3/8	*10*	11.3	*5.13*	282	*128*	255	*116*
KEHA025M8	7/8	*22*	1/2	*13*	21.5	*9.75*	388	*176*	343	*156*
KEHA030M8	7/8	*22*	1/2	*13*	21.5	*9.75*	388	*176*	343	*156*
KEHA035M8	7/8	*22*	1/2	*13*	21.5	*9.75*	389	*176*	344	*156*
KEHA006L6	1/2	*13*	3/8	*10*	5.4	*2.45*	141	*64*	119	54
KEHA008L6	1/2	*13*	3/8	*10*	5.4	*2.45*	141	*64*	119	*54*
KEHA010L6	5/8	*16*	3/8	*10*	5.4	*2.45*	187	*85*	165	*75*
KEHA015L6	7/8	*22*	3/8	*10*	5.4	*2.45*	190	*86*	168	*76*
KEHA020L6	7/8	*22*	3/8	*10*	5.4	*2.45*	194	*88*	172	*78*
KEHA025L6	7/8	*22*	3/8	*10*	14.4	*6.53*	281	*127*	254	*115*

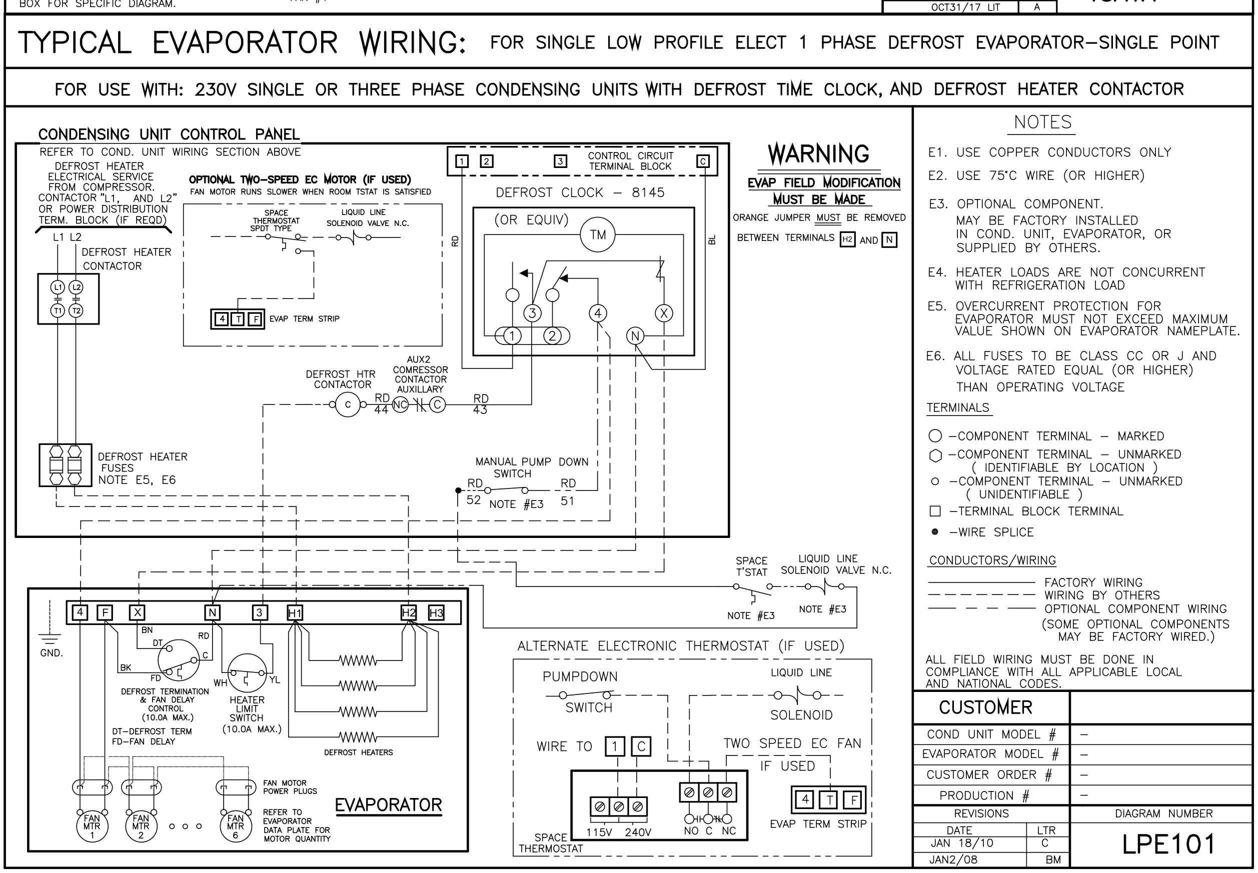
208-230/1/60 Unit



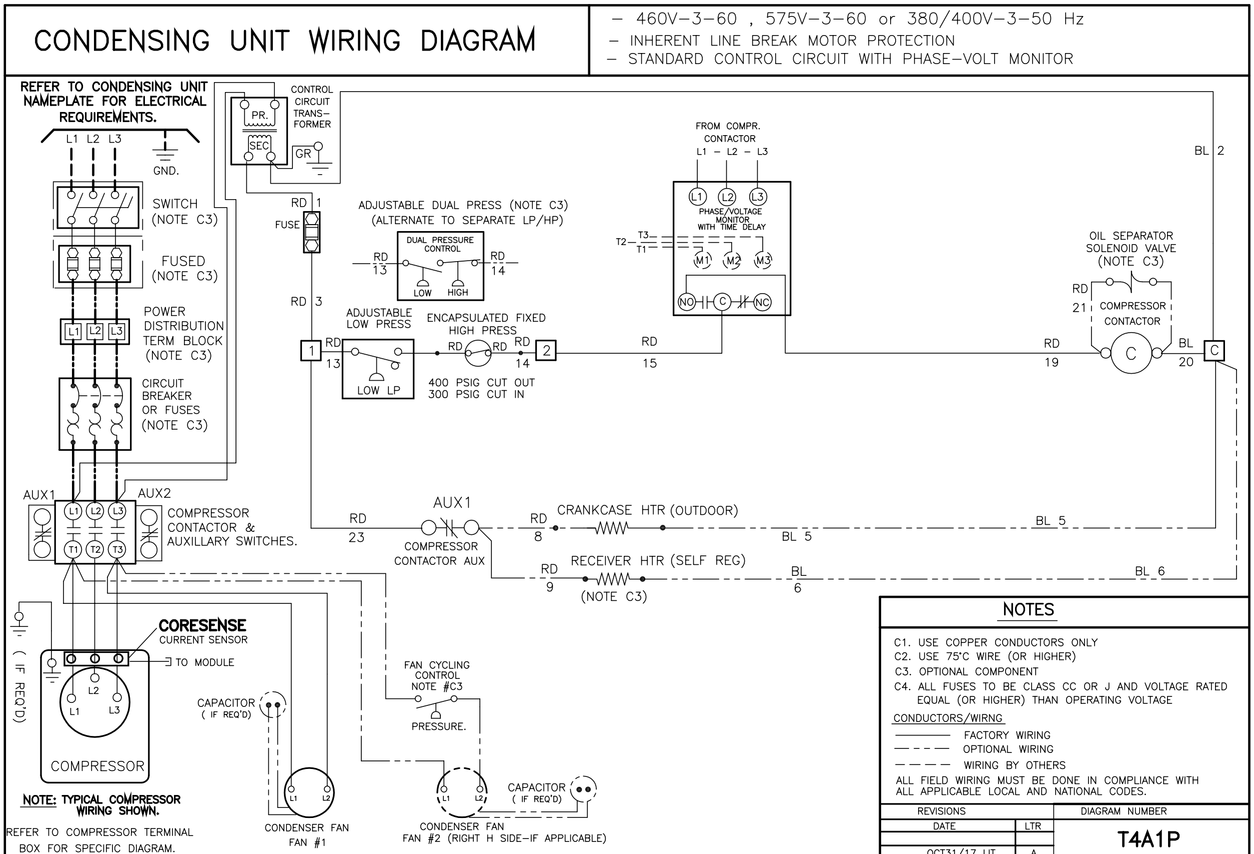


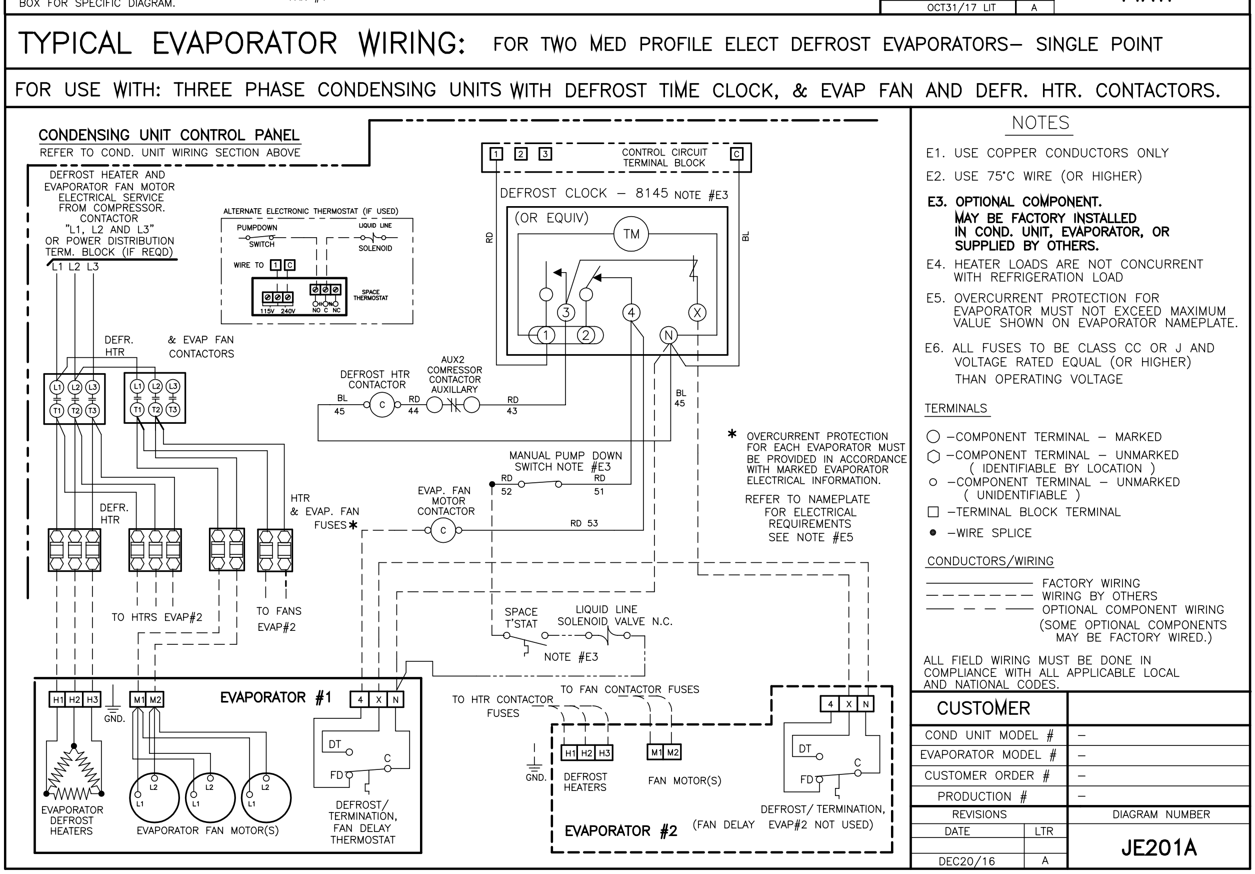
208-230/3/60 Unit



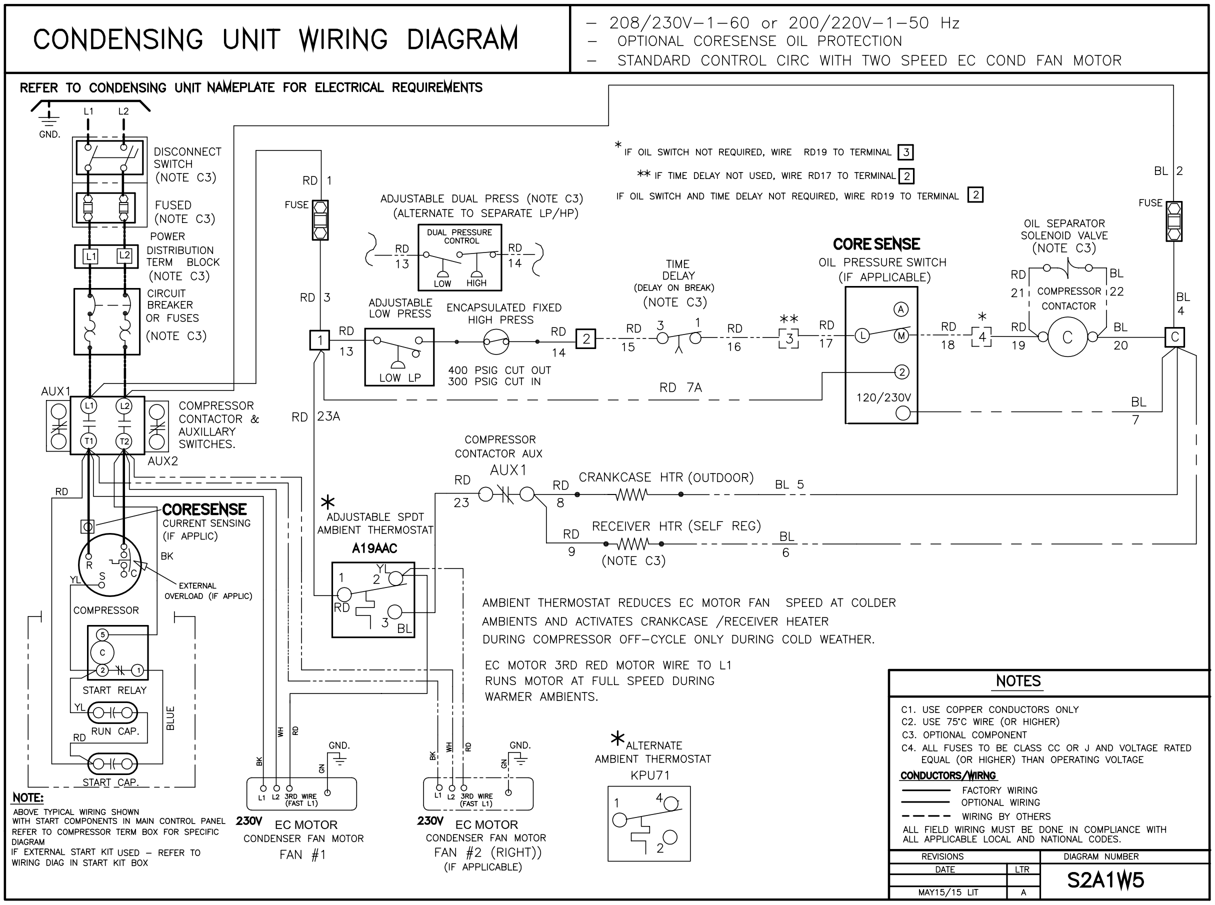


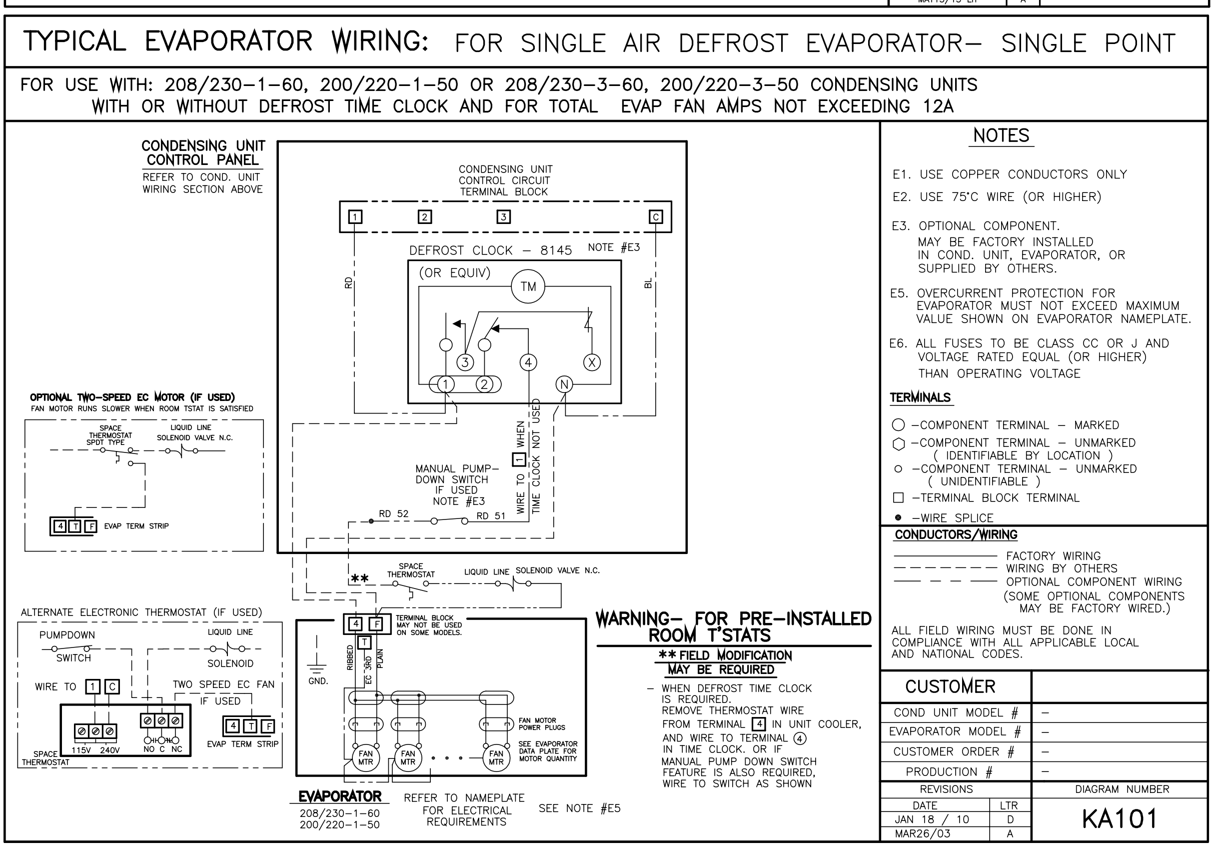
460/3/60, 575/3/60 Units





208-230/1/60 Unit with SMARTSPEED™ with 230V Air Defrost Evaporator





System	
Model Number	Date of Start-Up
Serial Number	Service Contractor
Refrigerant	Phone
Electrical Supply	E-Mail

PRODUCT SUPPORT	*web:* **www.k-rp.com/keh** *email:* **smcu@k-rp.com** *call:* **1-844-893-3222 x521**
TROUBLESHOOTING	*email:* **troubleshooting@k-rp.com** *call:* **1-844-893-3222 x529**
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KeepRite Refrigeration
Brantford, ON • Longview, TX
1-800-463-9517 info@k-rp.com www.k-rp.com

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