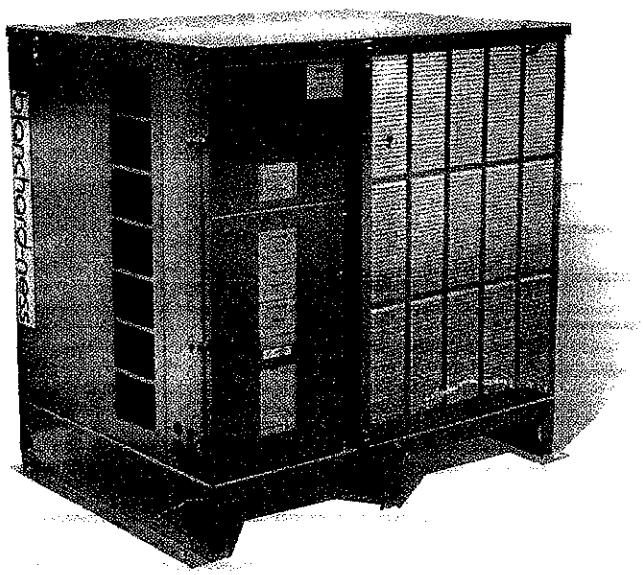
blanchard-ness

EXTENDED SCROLL LINE INCLUDED

KO/KI

Outdoor and Indoor Condensing Units



KO Outdoor Condensing Units

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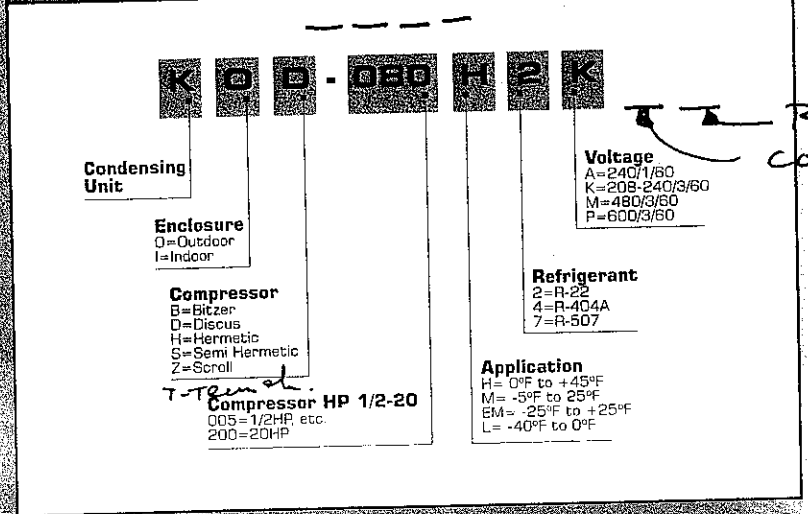
Performance Data and Specifications

Key to Abbreviations:

MBH= Thousand BTU/HR
kW=Compressor Power-Thousand Watts

KO/KI Series Model Key



KO/KI Series Air-Cooled Condensing Units

A Completely Reconfigured Selection of Models Featuring a Wide Range of Compressor Types and Improved Condenser Performance to Satisfy Your Specific Application Needs.

Choose from the following 5 Compressor Types:

KOH Series with Copeland Hermetic Compressors
KOD Series with Copeland Discus Compressors
KOB Series with Bitzer Compressors
KOZ Series with Copeland Scroll Compressors
KOS Series with Copeland Semi-Hermetic Compressors

Compressor

Factory balanced and rigid mounted to reduce risk of line fatigue failure. All safety switches are pre-piped.

- Internal motor overheat protection
- Crankcase heater
- Oil level sight glass (semi-hermetic/Discus)
- Internal driven shaft oil pump-Base C & D
- Back-seating suction and discharge valves
- Manual reset oil failure safety switch on Base C & D
- Automatic reset low suction pressure switch
- Manual reset high pressure control
- Single and three phase electrical service availability.

Condenser Coil

- Constructed with 3/8" OD copper tube with plate type, die formed aluminum fin stock. Fins have full self-spacing collars which completely cover the copper tube and are mechanically bonded and spaced a maximum of 10 fins per inch for increased efficiency.
- A separate sub-cooling circuit on Base C & D, integral with the main condenser coil, to ensure gas free liquid to the expansion valve and minimize refrigerant charge.
- Fixed head pressure "flooding" valve for low ambient operation.

Construction Features

- Rugged base constructed of heavy gauge galvanized steel. Base C & D are raised 7" to accommodate piping runs and allow access for servicing.
- Weather resistant enclosure constructed of galvanized steel with a hinged top and hinged front (Base C & D) for servicing internal components (KO only).

Receiver

Amply sized to allow for evaporator pumpout and condenser flooding charges. A fusible plug and back-seating liquid service valves are included.

Control Panel

Fully Enclosed and Weatherproofed

Base C & D units have the following features:

- Dual compartments separate the pilot and line voltage controls.
- Lockable with field supplied padlock.
- Includes system pump down switch, compressor contactor, low pressure control, oil safety, power terminal block and control circuit terminal block.

Fans

- One or two horizontal discharge fans 14" or 24"diameter with fan section divided by full width galvanized baffles to prevent air bypass. Fans are statically and dynamically balanced and have separate drive motors. Each fan outlet is protected by a heavy gauge, corrosion resistant close mesh fan guard.
- Inherently protected direct drive single phase condenser fan motor with permanently lubricated ball bearings.

Optional Features

- Suction accumulator minimizes compressor failure caused by liquid floodback and oil slugging.
- Adjustable head pressure control.
- Oil separator with oil return line to the compressor crankcase assures oil level under all operating conditions and is recommended for room temperatures of -10°F and below.
- Fused & non-fused disconnect (Not installed).
- Electrical control panel with all necessary controls to run the electric defrost evaporators including time clock, heater and evaporator motor contactors.

Standard Features

- Heating & insulation on receiver (KO only).
- Liquid line solenoid (Shipped loose).

KOH Series Air-Cooled Condensing Units

PERFORMANCE DATA with Copeland Hermetic / Extended Medium Temperature R-404A

AMB	-25°F SST		-20°F SST		-15°F SST		-10°F SST		-5°F SST		0°F SST		5°F SST		10°F SST		15°F SST		20°F SST		25°F SST	
°F	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
KOH005EM4			**RS43C1E**																			
90	1.3	0.5	1.7	0.5	2.0	0.6	2.4	0.6	2.9	0.6	3.3	0.7	3.9	0.7	4.5	0.8	5.1	0.8	5.8	0.9	6.6	0.9
95	1.2	0.5	1.5	0.5	1.9	0.6	2.3	0.6	2.7	0.7	3.1	0.7	3.6	0.8	4.1	0.8	4.8	0.9	5.4	0.9	6.2	1.0
105	1.1	0.5	1.4	0.5	1.7	0.6	1.9	0.6	2.2	0.7	2.6	0.7	3.0	0.8	3.5	0.8	4.0	0.9	4.6	0.9	5.3	1.0
KOH010EM4			**RS64C1E**																			
90	2.3	0.9	2.9	0.9	3.4	1.0	3.9	1.0	4.5	1.1	5.1	1.2	5.8	1.2	6.5	1.3	7.2	1.3	7.9	1.4	8.7	1.5
95	2.2	0.9	2.6	0.9	3.2	1.0	3.7	1.1	4.2	1.1	4.8	1.2	5.4	1.2	6.1	1.3	6.8	1.4	7.5	1.4	8.2	1.5
105	1.8	0.8	2.2	0.9	2.7	1.0	3.2	1.1	3.7	1.1	4.2	1.2	4.8	1.3	5.4	1.3	6.0	1.4	6.6	1.5	7.3	1.5
KOH013EM4			**RS97C1E**																			
90	2.8	1.0	3.6	1.1	4.4	1.2	5.2	1.3	6.1	1.4	7.0	1.5	8.0	1.6	9.0	1.7	10.0	1.8	11.1	1.9	12.3	2.0
95	2.5	1.0	3.3	1.1	4.1	1.2	4.9	1.3	5.7	1.4	6.6	1.5	7.5	1.6	8.5	1.7	9.4	1.8	10.5	1.9	11.5	2.0
105	1.9	0.9	2.7	1.0	3.4	1.1	4.2	1.3	4.9	1.4	5.7	1.5	6.5	1.6	7.4	1.7	8.2	1.8	9.1	2.0	10.0	2.1
KOH018EM4			**CS12K6E**																			
90	3.3	0.9	4.2	1.0	5.2	1.1	6.3	1.2	7.5	1.3	8.8	1.5	10.2	1.6	11.6	1.7	13.1	1.8	14.7	1.9	16.3	2.0
95	2.9	0.9	3.8	1.0	4.7	1.1	5.8	1.2	6.9	1.3	8.2	1.5	9.4	1.6	10.8	1.7	12.2	1.8	13.7	1.9	15.2	2.0
105	2.2	0.8	3.0	0.9	3.8	1.0	4.7	1.2	5.8	1.3	6.8	1.4	8.0	1.6	9.2	1.7	10.5	1.8	11.8	1.9	13.2	2.1
KOH020EM4			**CS14K6E**																			
90	4.4	1.1	5.4	1.2	6.5	1.3	7.7	1.5	9.0	1.6	10.4	1.7	11.8	1.9	13.4	2.0	14.9	2.1	16.5	2.2	18.1	2.3
95	4.0	1.1	4.9	1.2	6.0	1.3	7.1	1.5	8.4	1.6	9.7	1.7	11.1	1.9	12.5	2.0	14.0	2.1	15.5	2.3	17.0	2.4
105	3.3	1.0	4.1	1.2	5.0	1.3	6.0	1.4	7.1	1.6	8.3	1.7	9.5	1.9	10.8	2.0	12.1	2.2	13.4	2.3	14.7	2.4
KOH030EM4			**CS20K6E**																			
90	5.5	1.4	7.1	1.6	8.6	1.8	10.2	2.0	11.8	2.2	13.5	2.4	15.3	2.5	17.2	2.7	19.4	2.9	22.6	3.1	24.2	3.3
95	4.7	1.4	6.3	1.6	7.8	1.8	9.3	2.0	10.8	2.2	12.4	2.3	14.1	2.5	15.9	2.7	18.0	2.9	20.2	3.1	23.6	3.3
105	3.3	1.3	4.8	1.5	6.2	1.7	7.6	1.9	8.9	2.1	10.3	2.3	11.9	2.5	13.6	2.7	15.2	2.9	17.3	3.1	20.3	3.4
KOH040EM4			**CS27K6E**																			
90	8.2	2.1	10.0	2.2	11.9	2.4	14.0	2.6	16.4	2.9	18.9	3.2	21.7	3.5	24.7	3.8	28.0	4.0	31.4	4.3	35.1	4.6
95	7.4	2.0	9.1	2.2	10.9	2.4	12.9	2.6	15.2	2.9	17.6	3.2	20.2	3.5	23.1	3.8	26.1	4.1	29.4	4.4	32.9	4.7
105	6.0	1.9	7.4	2.1	9.0	2.3	10.7	2.5	12.7	2.8	14.9	3.1	17.2	3.5	19.8	3.8	22.5	4.1	25.5	4.4	28.7	4.8
KOH050EM4			**CS33K3E**																			
90	9.5	2.4	11.9	2.7	14.3	3.0	16.8	3.3	19.5	3.6	22.3	3.9	25.4	4.2	28.7	4.5	32.2	4.9	36.0	5.2	40.2	5.6
95	8.6	2.3	10.8	2.6	13.1	2.9	15.4	3.2	17.9	3.5	20.6	3.9	23.5	4.2	26.6	4.6	30.0	4.9	33.7	5.3	37.7	5.7
105	7.0	2.2	8.8	2.5	10.7	2.8	12.7	3.1	14.9	3.5	17.2	3.8	19.8	4.2	22.6	4.5	25.7	4.9	29.1	5.4	32.8	5.8

SPECIFICATIONS

	240/1/60					208-240/3/60								
UNIT MODEL	COMP MODEL	COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	CONNECTIONS (IN) LIQ. OD	CONNECTIONS (IN) SUCT. OD	RECEIVER (Lbs) DIA X HEIGHT	RECEIVER (Lbs) CAP.†	EST. SHIP WEIGHT (Lbs)	DIMENSIONS P.20&21
KOH005EM4	RS43C1E	5.7	3.2	10.3	15	—	—	—	—	3/8	7/8	5X16	8.3	252	(A)
KOH010EM4	RS64C1E	9.2	3.2	14.7	20	—	—	—	—	3/8	7/8	5X16	8.3	255	(A)
KOH013EM4	RS97C1E	11.0	3.2	17.0	20	7.0	3.2	12.0	15	3/8	7/8	5X16	8.3	258	(A)
KOH018EM4	CS12K6E	10.9	6.4	20.0	25	7.5	6.4	15.8	20	1/2	7/8	6X18	13.6	288	(B)
KOH020EM4	CS14K6E	12.4	6.4	21.9	25	9.1	6.4	17.8	20	1/2	7/8	6X18	13.6	289	(B)
KOH030EM4	CS20K6E	18.6	6.4	29.7	35	11.4	6.4	20.7	25	1/2	7/8	6X18	13.6	293	(B)
KOH040EM4	CS27K6E	23.9	4.7	34.6	45	15.6	4.7	24.2	30	1/2	1-1/8	6X23	17.5	421	(C)
KOH050EM4	CS33K6E	30.7	4.7	43.1	50	20.7	4.7	30.6	40	1/2	1-1/8	6X23	17.5	425	(C)

	460/3/60					600/3/60								
UNIT MODEL	COMP MODEL	COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	CONNECTIONS (IN) LIQ. OD	CONNECTIONS (IN) SUCT. OD	RECEIVER (Lbs) DIA X HEIGHT	RECEIVER (Lbs) CAP.†	EST. SHIP WEIGHT (Lbs)	DIMENSIONS P.20&21
KOH005EM4	RS43C1E	—	—	—	—	—	—	—	—	3/8	7/8	5X16	8.3	252	(A)
KOH010EM4	RS64C1E	—	—	—	—	—	—	—	—	3/8	7/8	5X16	8.3	255	(A)
KOH013EM4	RS97C1E	—	—	—	—	—	—	—	—	3/8	7/8	5X16	8.3	258	(A)
KOH018EM4	CS12K6E	—	—	—	—	—	—	—	—	1/2	7/8	6X18	13.6	288	(B)
KOH020EM4	CS14K6E	4.7	3.2	9.1	15	—	—	—	—	1/2	7/8	6X18	13.6	289	(B)
KOH030EM4	CS20K6E	5.1	3.2	9.6	15	—	—	—	—	1/2	7/8	6X18	13.6	293	(B)
KOH040EM4	CS27K6E	8.5	2.2	12.8	15	—	—	—	—	1/2	1-1/8	6X23	17.5	421	(C)
KOH050EM4	CS33K6E	9.9	2.2	14.6	20	—	—	—	—	1/2	1-1/8	6X23	17.5	425	(C)

† Receiver capacity based on 80% full.
* Minimum circuit amps and minimum circuit breaker sizes are based on air defrost system. If electric defrost is utilized, evaporator fan amps must be added to both values.

KOH Series Air-Cooled Condensing Units

PERFORMANCE DATA with Copeland Hermetic/High Temperature R-22

AMB	0°F SST		5°F SST		10°F SST		15°F SST		20°F SST		25°F SST		30°F SST		35°F SST		40°F SST		45°F SST	
°F	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
KOH005H2			**ART82C1**																	
90	3.2	0.6	3.7	0.7	4.2	0.7	4.7	0.7	5.3	0.8	6.0	0.8	6.7	0.8	7.6	0.9	8.4	0.9	9.4	0.9
95	3.0	0.7	3.4	0.7	3.9	0.7	4.4	0.8	5.0	0.8	5.9	0.8	6.4	0.9	7.3	0.9	8.1	0.9	9.0	1.0
105	2.8	0.7	3.2	0.7	3.7	0.8	4.2	0.8	4.8	0.8	5.4	0.9	6.1	0.9	7.0	0.9	7.8	1.0	8.7	1.0
KOH009H2			**RRG4-0100**																	
90	4.1	0.8	4.9	0.8	5.7	0.9	6.6	0.9	7.5	1.0	8.5	1.0	9.6	1.1	10.8	1.1	12.0	1.2	13.4	1.3
95	3.8	0.8	4.6	0.8	5.4	0.9	6.2	1.0	7.1	1.0	8.1	1.1	9.2	1.1	10.3	1.2	11.5	1.2	12.8	1.3
105	3.3	0.8	4.0	0.9	4.8	0.9	5.6	1.0	6.4	1.0	7.3	1.1	8.3	1.2	9.3	1.2	10.4	1.3	11.6	1.4
KOH013H2			**RS70C1**																	
90	4.7	0.8	5.6	0.9	6.6	0.9	7.6	1.0	8.7	1.1	9.9	1.1	11.1	1.2	12.3	1.2	13.7	1.3	15.1	1.3
95	4.3	0.8	5.2	0.9	6.2	1.0	7.2	1.0	8.2	1.2	9.3	1.1	10.5	1.2	11.8	1.2	13.1	1.3	14.5	1.3
105	3.5	0.8	4.4	0.9	5.3	1.0	6.3	1.0	7.3	1.1	8.3	1.2	9.4	1.2	10.6	1.3	11.9	1.4	13.2	1.4
KOH015H2			**CRA1-0150**																	
90	5.9	1.0	6.9	1.1	8.1	1.1	9.4	1.2	10.9	1.3	12.4	1.4	14.0	1.4	15.7	1.5	17.5	1.6	19.4	1.6
95	5.5	1.0	6.5	1.1	7.7	1.1	9.0	1.2	10.3	1.3	11.8	1.4	13.4	1.5	15.0	1.6	16.8	1.6	18.6	1.7
105	4.8	1.0	5.7	1.1	6.8	1.2	8.0	1.3	9.3	1.4	10.6	1.5	12.1	1.6	13.6	1.6	15.3	1.7	17.0	1.8
KOH020H2			**CRD1-0200**																	
90	7.8	1.4	9.2	1.5	10.7	1.6	12.3	1.7	14.2	1.8	16.1	1.9	18.2	2.0	20.5	2.1	22.8	2.2	25.2	2.2
95	7.4	1.4	8.7	1.5	10.2	1.6	11.8	1.7	13.6	1.8	15.5	1.9	17.5	2.0	19.6	2.1	21.9	2.2	24.2	2.3
105	6.6	1.4	7.8	1.5	9.2	1.6	10.7	1.8	12.4	1.9	14.2	2.0	16.1	2.1	18.1	2.2	20.2	2.3	22.4	2.4
KOH031H2			**CRJ3-0300**																	
90	12.6	2.0	14.9	2.2	17.5	2.3	20.3	2.5	23.4	2.6	26.8	2.8	30.5	2.9	34.4	3.1	38.6	3.2	43.1	3.4
95	11.8	2.0	14.0	2.2	16.5	2.3	19.2	2.5	22.2	2.7	25.5	2.8	29.0	3.0	32.8	3.1	36.9	3.3	41.2	3.5
105	10.3	2.0	12.4	2.2	14.6	2.4	17.1	2.6	19.8	2.7	22.8	2.9	26.0	3.1	29.5	3.3	33.3	3.5	37.3	3.7
KOH040H2			**CRM3-0400**																	
90	15.1	2.7	19.0	3.0	23.1	3.2	27.4	3.5	31.7	3.8	36.3	4.1	41.0	4.4	45.9	4.6	50.9	4.9	56.2	5.1
95	13.6	2.6	17.5	2.9	21.6	3.3	25.7	3.6	30.1	3.9	34.5	4.1	39.1	4.4	43.9	4.7	48.8	5.0	53.9	5.2
105	10.5	2.5	14.4	2.9	18.3	3.2	22.4	3.5	26.6	3.9	30.9	4.2	35.3	4.5	39.8	4.8	44.4	5.1	49.2	5.4
KOH050H2			**CRN5-0500**																	
90	21.9	3.2	25.9	3.6	30.1	3.9	34.4	4.2	38.8	4.6	43.4	4.9	48.3	5.2	53.4	5.5	59.9	5.8	66.8	6.0
95	20.5	3.2	24.4	3.6	28.5	4.0	32.8	4.3	37.1	4.6	41.7	5.0	46.4	5.3	51.3	5.7	56.5	6.0	63.2	6.2
105	17.3	3.2	21.3	3.6	25.4	4.0	29.5	4.4	33.7	4.8	38.0	5.1	42.5	5.5	47.1	5.9	52.0	6.3	58.3	6.5
KOH075H2			**BRE4-0750**																	
90	30.8	4.8	36.4	5.3	43.0	5.8	50.0	6.3	57.5	6.8	65.4	7.2	73.8	7.7	82.5	8.3	91.7	8.8	101.1	9.4
95	28.2	4.8	34.1	5.3	40.4	5.8	47.2	6.3	54.4	6.8	62.0	7.3	70.1	7.8	78.5	8.4	87.3	8.9	96.4	9.5
105	23.9	4.7	29.4	5.3	35.2	5.8	41.5	6.4	48.2	6.9	55.2	7.5	66.4	8.0	70.4	8.6	78.4	9.2	86.7	9.8
KOH100H2			**BRH2-1000**																	
90	45.4	6.9	53.2	7.5	61.6	8.0	70.6	8.6	80.2	9.1	90.5	9.7	101.5	10.2	113.2	10.8	125.5	11.3	138.5	11.9
95	42.8	6.9	50.4	7.5	58.6	8.1	67.4	8.7	76.8	9.3	86.8	9.8	97.5	10.4	108.8	11.0	120.8	11.6	133.4	12.2
105	37.5	6.9	44.7	7.6	52.4	8.3	60.7	8.9	69.6	9.5	79.1	10.2	89.1	10.8	99.8	11.4	111.0	12.1	122.8	12.7
KOH102H2			**(2) CRN5-0500**																	
90	41.0	6.6	48.6	7.2	56.8	7.6	65.6	8.2	75.2	8.6	85.6	9.2	96.6	9.8	108.2	10.2	120.6	10.8	133.6	11.4
95	38.6	6.8	46.0	7.2	54.0	7.8	62.8	8.4	72.0	8.8	82.0	9.4	92.6	10.0	104.0	10.6	116.0	11.2	128.6	11.8
105	34.2	6.8	41.0	7.4	48.6	8.0	56.6	8.6	65.4	9.2	74.8	9.8	84.6	10.4	95.2	11.0	106.4	11.6	118.2	12.4
KOH125H2			**CRN5-0500 & BRE4-0750**																	
90	51.0	8.1	60.9	8.9	71.7	9.6	83.2	10.3	95.6	11.1	108.7	11.7	122.7	12.5	137.4	13.3	152.9	14.1	169.0	15.0
95	47.7	8.2	57.4	8.9	67.7	9.7	78.9	10.4	90.9	11.2	103.5	12.0	117.1	12.7	131.3	13.6	146.2	14.4	161.8	15.3
105	41.2	8.1	50.2	9.0	59.8	9.8	70.2	10.7	81.3	11.5	93.1	12.4	109.4	13.2	118.8	14.0	132.5	15.0	146.9	15.9
KOH150H2			**(2) BRE4-0750**																	
90	60.6	9.6	72.8	10.6	86.0	11.6	100.0	12.6	115.0	13.6	130.8	14.4	147.6	15.4	165.0	16.6	183.4	17.6	202.2	18.8
95	56.4	9.6	68.2	10.6	80.8	11.6	94.4	12.6	108.8	13.6	124.0	14.6	140.2	15.6	157.0	16.8	174.6	17.8	192.8	19.0
105	47.8	9.4	58.8	10.6	70.4	11.6	83.0	12.8	96.4	13.8	110.4	15.0	132.8	16.0	140.8	17.2	156.8	18.4	173.4	19.6

SPECIFICATIONS

UNIT MODEL	240/1/60 COMP MODEL	COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	208-240/3/60 COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	CONNECTIONS (IN) LIQ.OD	SUCT.OD	RECEIVER (Lbs) DIA X HEIGHT	CAP.†	EST. SHIP WEIGHT (Lbs)	DIMENSIONS P.20&21
KOH005H2	ART82C1	5.9	3.2	10.6	15	—	—	—	—	3/8	7/8	5 X 16	9.3	230	(A)
KOH009H2	RRG4-0100	6.7	3.2	11.6	15	—	—	—	—	3/8	7/8	5 X 16	9.3	241	(A)
KOH013H2	RS70C1	7.0	3.2	12.0	15	4.7	3.2	9.1	15	3/8	7/8	5 X 16	9.3	240	(A)
KOH015H2	CRA1-0150	10.8	6.4	19.9	25	9.3	6.4	18.0	20	1/2	7/8	6 X 18	15.3	273	(B)
KOH020H2	CRD1-0200	13.4	6.4	23.2	25	8.7	6.4	17.3	20	1/2	7/8	6 X 18	15.3	275	(B)
KOH031H2	CRJ3-0300	22.5	4.7	32.8	40	14.3	4.7	22.6	25	1/2	1-1/8	6 X 23	19.7	401	(C)
KOH040H2	CRM3-0400	30.7	4.7	43.1	50	17.9	4.7	27.1	30	1/2	1-1/8	6 X 23	19.7	409	(C)
KOH050H2	CRN5-0500	34.3	4.7	47.6	60	21.4	4.7	31.5	40	1/2	1-1/8	6 X 23	19.7	423	(C)
KOH075H2	BRE4-0750	—	—	—	—	30.1	4.7	42.3	55	5/8	1-3/8	8-5/8 X 32	55.0	712	(C)
KOH100H2	BRH2-1000	—	—	—	—	42.1	9.4	62.0	80	7/8	1-3/8	10-3/4 X 28	72.0	995	(D)
KOH102H2	(2)CRN5-0500	34.3	9.4	86.6	100	21.4	9.4	57.6	65	(2) 1/2	(2) 1-1/8	(2) 6 X 23	39.4	997	(D)
KOH125H2	CRN5-0500	—	—	—	—	21.4	9.4	68.4	80	1/2	1-1/8	6 X 23	19.7	1078	(D)
	& BRE4-0750	—				30.1				5/8	1-3/8	8-5/8 X 32	55.0		
KOH150H2	(2)BRE4-0750	—	—	—	—	30.1	9.4	77.1	90	(2) 5/8	(2) 1-3/8	(2) 8-5/8 X 32	55.0	1159	(D)

UNIT MODEL	480/3/60 COMP MODEL	COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	600/3/60 COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	CONNECTIONS (IN) LIQ.OD	SUCT.OD	RECEIVER (Lbs) DIA X HEIGHT	CAP.†	EST. SHIP WEIGHT (Lbs)	DIMENSIONS P.20&21
KOH005H2	ART82C1	—	—	—	—	—	—	—	—	3/8	7/8	5 X 16	9.3	230	(A)
KOH009H2	RRG4-0100	—	—	—	—	—	—	—	—	3/8	7/8	5 X 16	9.3	241	(A)
KOH013H2	RS70C1	—	—	—	—	—	—	—	—	3/8	7/8	5 X 16	9.3	240	(A)
KOH015H2	CRA1-0150	4.1	3.2	8.3	15	—	—	—	—	1/2	7/8	6 X 18	15.3	273	(B)
KOH020H2	CRD1-0200	4.2	3.2	8.5	15	—	—	—	—	1/2	7/8	6 X 18	15.3	275	(B)
KOH031H2	CRJ3-0300	6.7	2.2	10.6	15	5.6	1.2	8.2	15	1/2	1-1/8	6 X 23	19.7	401	(C)
KOH040H2	CRM3-0400	8.6	2.2	13.0	15	—	—	—	—	1/2	1-1/8	6 X 23	19.7	409	(C)
KOH050H2	CRN5-0500	9.6	2.2	14.2	15	7.9	1.2	11.1	15	1/2	1-1/8	6 X 23	19.7	423	(C)
KOH075H2	BRE4-0750	15.8	2.2	22.0	25	12.4	1.2	16.7	20	5/8	1-3/8	8-5/8 X 32	55.0	504	(C)
KOH100H2	BRH2-1000	21.1	4.4	30.8	40	16.9	2.4	23.5	30	7/8	1-3/8	10-3/4 X 28	72.0	995	(D)
KOH102H2	(2)CRN5-0500	9.6	4.4	26.0	30	7.9	2.4	20.2	25	(2) 1/2	(2) 1-1/8	(2) 6 X 23	39.4	997	(D)
KOH125H2	CRN5-0500	9.6	4.4	35.6	40	7.9	2.4	25.8	30	1/2	1-1/8	6 X 23	19.7	1078	(D)
	& BRE4-0750	15.8				12.4				5/8	1-3/8	8-5/8 X 32	55.0		
KOH150H2	(2)BRE4-0750	15.8	4.4	40.0	45	12.4	2.4	30.3	35	(2) 5/8	(2) 1-3/8	(2) 8-5/8 X 32	55.0	1159	(D)

† Receiver capacity based on 80 % full.

* Minimum circuit amps and minimum circuit breaker sizes are based on air defrost system. If electric defrost is utilized, evaporator fan amps must be added to both values

KOS Series Air-Cooled Condensing Units

PERFORMANCE DATA with Copeland Semi-Hermetic / Medium-High Temperature R-22

AMB °F	-5°F SST MBH	kW	0°F SST MBH	kW	5°F SST MBH	kW	10°F SST MBH	kW	15°F SST MBH	kW	20°F SST MBH	kW	25°F SST MBH	kW	30°F SST MBH	kW	35°F SST MBH	kW	40°F SST MBH	kW	45°F SST MBH	kW
KOS005M2	**HAJ1-0050**																					
90	2.4	0.4	2.8	0.4	3.1	0.4	3.6	0.5	4.0	0.5	4.5	0.5	5.1	0.5	—	—	—	—	—	—	—	—
95	2.3	0.4	2.6	0.4	3.0	0.5	3.4	0.5	3.9	0.5	4.3	0.5	4.9	0.6	—	—	—	—	—	—	—	—
105	2.1	0.4	2.4	0.4	2.7	0.5	3.1	0.5	3.5	0.5	4.0	0.6	4.5	0.6	—	—	—	—	—	—	—	—
KOS008M2	**KAE#-0075**																					
90	3.8	0.7	4.4	0.7	5.0	0.8	5.6	0.8	6.3	0.8	7.1	0.9	8.0	0.9	—	—	—	—	—	—	—	—
95	3.7	0.7	4.2	0.7	4.8	0.8	5.4	0.8	6.1	0.9	6.9	0.9	7.7	1.0	—	—	—	—	—	—	—	—
105	3.3	0.7	3.9	0.7	4.4	0.8	5.0	0.8	5.6	0.9	6.3	0.9	7.1	1.0	—	—	—	—	—	—	—	—
KOS010H2	**KAM#-0100**																					
90	—	—	5.5	0.8	6.4	0.9	7.3	0.9	8.3	0.9	9.3	1.0	10.4	1.0	11.6	1.1	12.8	1.1	14.2	1.1	15.6	1.2
95	—	—	5.2	0.8	6.1	0.9	7.0	0.9	8.0	1.0	9.0	1.0	10.0	1.1	11.2	1.1	12.4	1.2	13.7	1.2	15.1	1.2
105	—	—	4.8	0.9	5.6	0.9	6.4	1.0	7.3	1.0	8.2	1.1	9.2	1.1	10.3	1.2	11.4	1.2	12.6	1.3	13.9	1.3
KOS016H2	**KAG#-0150**																					
90	—	—	6.3	0.9	7.3	1.0	8.3	1.0	9.5	1.1	10.7	1.1	12.0	1.2	13.3	1.2	14.8	1.3	16.4	1.3	18.0	1.4
95	—	—	6.0	0.9	7.0	1.0	8.0	1.1	9.1	1.1	10.3	1.2	11.5	1.2	12.9	1.3	14.3	1.3	15.8	1.4	17.5	1.4
105	—	—	5.5	1.0	6.4	1.0	7.4	1.1	8.4	1.2	9.5	1.2	10.7	1.3	11.9	1.4	13.3	1.4	14.7	1.5	16.3	1.5
KOS021H2	**KAK#-0200**																					
90	—	—	8.2	1.3	9.7	1.4	11.2	1.5	12.7	1.5	14.3	1.6	15.9	1.7	17.7	1.8	19.5	1.8	21.5	1.9	23.7	2.0
95	—	—	7.8	1.3	9.3	1.4	10.8	1.5	12.3	1.6	13.8	1.7	15.4	1.7	17.1	1.8	18.9	1.9	20.9	2.0	23.0	2.1
105	—	—	7.0	1.4	8.5	1.5	9.9	1.6	11.4	1.6	12.9	1.7	14.4	1.8	16.0	1.9	17.7	2.0	19.5	2.1	21.4	2.2
KOS020M2	**ERC#-0200**																					
90	8.2	1.4	9.5	1.5	10.9	1.6	12.5	1.7	14.2	1.8	16.1	1.9	18.1	2.0	—	—	—	—	—	—	—	—
95	7.8	1.4	9.1	1.5	10.5	1.6	12.0	1.7	13.6	1.9	15.4	2.0	17.4	2.1	—	—	—	—	—	—	—	—
105	7.1	1.4	8.3	1.6	9.5	1.7	10.9	1.8	12.5	1.9	14.1	2.1	15.9	2.2	—	—	—	—	—	—	—	—
KOS030M2	**3RA#-0310**																					
90	15.6	2.6	18.1	2.8	20.7	3.0	23.4	3.2	26.4	3.4	29.5	3.6	32.8	3.8	—	—	—	—	—	—	—	—
95	14.8	2.6	17.3	2.9	19.7	3.1	22.4	3.3	25.2	3.5	28.4	3.7	31.6	4.0	—	—	—	—	—	—	—	—
105	13.2	2.7	15.5	3.0	17.8	3.2	20.3	3.5	23.0	3.7	25.8	3.9	28.9	4.2	—	—	—	—	—	—	—	—
KOS030H2	**ERF#-0310**																					
90	—	—	15.0	2.4	17.3	2.6	19.7	2.8	22.3	2.9	25.1	3.1	28.1	3.3	31.3	3.5	34.8	3.6	38.3	3.8	42.1	3.9
95	—	—	14.3	2.4	16.5	2.6	18.9	2.8	21.4	3.0	24.1	3.2	27.0	3.4	30.1	3.5	33.5	3.7	37.0	3.9	40.6	4.0
105	—	—	12.9	2.5	15.0	2.7	17.2	2.9	19.6	3.1	22.2	3.3	25.0	3.5	28.1	3.7	31.2	3.9	34.5	4.1	38.1	4.3
KOS051H2	**NRA2-0500**																					
90	—	—	23.1	3.8	27.0	4.2	31.1	4.5	35.6	4.8	40.3	5.1	45.2	5.4	50.3	5.6	55.6	5.9	61.2	6.2	66.9	6.5
95	—	—	22.0	3.9	25.7	4.2	29.7	4.6	33.9	4.9	38.6	5.2	43.3	5.5	48.2	5.8	53.3	6.1	58.7	6.3	64.2	6.7
105	—	—	19.9	4.0	23.3	4.4	26.9	4.7	31.0	5.1	35.2	5.4	39.5	5.7	44.1	6.0	48.9	6.4	53.9	6.7	59.0	7.1

Compressor design revision number

SPECIFICATIONS

UNIT MODEL	240/1/60 COMP MODEL	COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	208-240/3/60 COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	CONNECTIONS (IN) LIQ. OD	SUCT. OD	RECEIVER (Lbs) DIA X HEIGHT	CAP.†	EST. SHIP WEIGHT (Lbs)	DIMEN-SIONS P. 20 & 21
KOS005M2	**HAJ1-0050**	3.7	3.2	7.8	15	—	—	—	—	3/8	7/8	5X16	9.3	265	(A)
KOS008M2	**KAE#-0075**	5.4	3.2	10.0	15	3.4	3.2	7.5	15	3/8	7/8	5X16	9.3	284	(A)
KOS010H2	**KAM#-0100**	7.5	3.2	12.6	15	4.5	3.2	8.8	15	3/8	7/8	5X16	9.3	284	(A)
KOS016H2	**KAG#-0150**	9.6	6.4	18.4	20	5.5	6.4	13.3	15	3/8	7/8	5X16	9.3	301	(B)
KOS021H2	**KAK#-0200**	10.6	6.4	19.7	30	6.8	6.4	14.9	20	1/2	7/8	6X18	15.3	311	(B)
KOS020M2	**ERC#-0200**	10.9	6.4	20.0	25	6.8	6.4	14.9	20	1/2	7/8	6X18	15.3	373	(B)
KOS030M2	**3RA#-0310**	17.8	4.7	27.0	35	14.2	4.7	22.5	25	1/2	1-1/8	6X23	19.7	510	(C)
KOS030H2	**ERF#-0310**	17.0	4.7	26.0	30	12.4	4.7	20.2	25	1/2	1-1/8	6X23	19.7	510	(C)
KOS051H2	**NRA2-0500**	—	—	—	—	19.2	4.7	28.7	35	1/2	1-1/8	6X23	19.7	583	(C)

UNIT MODEL	480/3/60 COMP MODEL	COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	600/3/60 COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	CONNECTIONS (IN) LIQ. OD	SUCT. OD	RECEIVER (Lbs) DIA X HEIGHT	CAP.†	EST. SHIP WEIGHT (Lbs)	DIMEN-SIONS P. 20 & 21
KOS005M2	**HAJ1-0050**	—	—	—	—	—	—	—	—	3/8	7/8	5X16	9.3	265	(A)
KOS008M2	**KAE#-0075**	—	—	—	—	—	—	—	—	3/8	7/8	5X16	9.3	284	(A)
KOS010H2	**KAM#-0100**	2.2	1.6	4.4	15	—	—	—	—	3/8	7/8	5X16	9.3	284	(A)
KOS016H2	**KAG#-0150**	2.5	3.2	6.3	15	—	—	—	—	3/8	7/8	5X16	9.3	301	(B)
KOS021H2	**KAK#-0200**	3.0	3.2	7.0	15	—	—	—	—	1/2	7/8	6X18	15.3	311	(B)
KOS020M2	**ERC#-0200**	3.6	3.2	7.7	15	CONSULT FACTORY				1/2	7/8	6X18	15.3	373	(B)
KOS030M2	**3RA#-0310**	6.6	2.2	10.5	15	—	—	—	—	1/2	1-1/8	6X23	19.7	510	(C)
KOS030H2	**ERF#-0310**	5.8	2.2	9.5	15	5.2	1.2	7.7	15	1/2	1-1/8	6X23	19.7	510	(C)
KOS051H2	**NRA2-0500**	9.6	2.2	14.2	15	9.2	1.2	12.7	15	1/2	1-1/8	6X23	19.7	583	(C)

† Receiver capacity based on 80% full.

* Minimum circuit amps and minimum circuit breaker sizes are based on air defrost system. If electric defrost is utilized, evaporator fan amps must be added to both values.

Compressor design revision number

KOD Series Air-Cooled Condensing Units

PERFORMANCE DATA with Copeland Discus / High Temperature R-22

AMB	0°F SST		5°F SST		10°F SST		15°F SST		20°F SST		25°F SST		30°F SST		35°F SST		40°F SST		45°F SST	
°F	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
KOD050H2			**2DC3-050E**																	
90	—	—	—	—	30.3	3.5	34.3	3.7	38.6	3.9	43.2	4.2	48.0	4.4	53.2	4.6	58.6	4.8	64.4	5.1
95	—	—	—	—	28.9	3.5	32.9	3.8	37.0	4.0	41.5	4.3	46.2	4.5	51.2	4.7	56.4	5.0	62.0	5.2
105	—	—	—	—	26.2	3.6	29.9	3.9	33.9	4.2	38.0	4.4	42.5	4.7	47.2	5.0	52.1	5.3	57.4	5.5
KOD051H2			**2DD3-050E**																	
90	27.6	3.5	31.8	3.8	36.4	4.0	41.1	4.3	46.1	4.5	51.4	4.7	57.1	5.0	63.1	5.2	69.5	5.5	76.3	5.7
95	26.3	3.6	30.4	3.8	34.7	4.1	39.5	4.4	44.3	4.6	49.5	4.9	55.0	5.2	60.8	5.4	67.0	5.7	73.6	6.0
105	23.7	3.6	27.6	3.9	31.7	4.2	36.0	4.5	40.8	4.8	45.7	5.2	50.8	5.5	56.3	5.8	62.1	6.1	68.2	6.4
KOD075H2			**2DL3-075E**																	
90	35.0	4.4	40.5	4.8	45.9	5.1	51.7	5.5	57.7	5.8	64.1	6.1	70.9	6.5	78.1	6.8	85.7	7.1	93.7	7.4
95	33.6	4.5	38.9	4.9	44.2	5.3	49.8	5.6	55.6	6.0	61.8	6.3	68.4	6.7	75.3	7.0	82.7	7.3	90.5	7.7
105	30.7	4.6	35.6	5.1	40.7	5.5	45.9	5.9	51.4	6.3	57.2	6.7	63.3	7.0	69.8	7.4	76.7	7.8	84.0	8.2
KOD080H2			**2DA3-075E**																	
90	40.8	4.9	47.3	5.3	54.2	5.7	61.1	6.0	68.5	6.3	76.3	6.6	84.5	6.9	93.3	7.2	102.5	7.4	112.3	7.7
95	38.9	5.0	45.3	5.4	52.1	5.8	58.9	6.2	66.1	6.5	73.7	6.9	81.7	7.2	90.2	7.4	99.1	7.7	108.6	8.0
105	34.8	5.1	41.2	5.6	47.5	6.0	54.4	6.5	61.3	6.9	68.4	7.3	76.0	7.6	84.0	8.0	92.3	8.3	101.2	8.6
KOD090H2			**3DA3A075E**																	
90	51.9	6.5	58.4	6.8	65.9	7.2	73.5	7.5	81.8	7.9	90.6	8.2	100.0	8.6	110.1	8.9	120.8	9.2	132.2	9.5
95	50.1	6.6	56.3	7.0	63.6	7.4	71.0	7.8	79.0	8.1	87.6	8.5	96.8	8.9	106.5	9.2	116.9	9.6	128.0	9.9
105	46.5	6.9	52.3	7.3	59.1	7.8	66.2	8.2	73.7	8.6	81.8	9.0	90.4	9.5	99.6	9.9	109.3	10.3	119.8	10.7
KOD100H2			**3DB3A100E**																	
90	62.4	8.0	69.8	8.4	78.2	8.9	87.0	9.3	96.3	9.8	106.3	10.2	116.9	10.7	128.3	11.1	140.3	11.6	153.0	12.0
95	60.2	8.2	67.5	8.6	75.7	9.1	84.2	9.6	93.2	10.1	102.9	10.6	113.2	11.1	124.2	11.5	135.8	12.0	148.1	12.5
105	55.6	8.5	62.8	9.1	70.5	9.6	78.4	10.1	87.0	10.7	96.0	11.2	105.7	11.8	115.9	12.4	126.8	12.9	138.3	13.5
KOD120H2			**3DF3A120E**																	
90	71.3	9.3	80.5	9.8	90.1	10.4	100.4	11.0	111.4	11.6	123.2	12.2	135.7	12.9	148.9	13.5	162.9	14.1	177.5	14.7
95	69.0	9.5	77.9	10.1	87.1	10.7	97.1	11.3	107.7	12.0	119.1	12.6	131.2	13.3	144.0	13.9	157.5	14.6	171.6	15.3
105	64.4	10.0	72.7	10.6	81.2	11.2	90.5	11.9	100.4	12.6	111.0	13.3	122.2	14.0	134.2	14.8	146.7	15.5	159.9	16.2
KOD150H2			**3DS3A150E**																	
90	80.5	10.6	90.9	11.3	101.6	12.0	113.0	12.7	125.0	13.5	137.8	14.2	151.4	14.9	165.7	15.6	180.7	16.3	196.4	17.0
95	78.0	10.9	88.2	11.7	98.6	12.4	109.5	13.1	121.2	13.9	133.6	14.6	146.7	15.4	160.4	16.1	174.9	16.9	190.1	17.6
105	73.6	11.5	83.0	12.3	92.8	13.1	103.0	13.9	113.9	14.7	125.4	15.5	137.6	16.3	150.3	17.1	163.7	17.9	177.8	18.7

SPECIFICATIONS

		240/1/60					208-240/3/60								EST. SHIP	DIMEN-
		COMP	COMP	COND	MIN*	MIN*	COMP	COND	MIN*	MIN*	CONNECTIONS (IN)		RECEIVER (Lbs)		WEIGHT	SIONS
UNIT	MODEL	MODEL	RLA	FLA	AMPS	BREAKER	RLA	FLA	AMPS	BREAKER	LIQ. OD	SUCT. OD	DIA X HEIGHT	CAP.†	(Lbs)	P. 20 & 21
KOD050H2		2DC3-050E	29.9	4.7	42.1	50	22.3	4.7	32.6	40	1/2	1-1/8	6X23	19.7	623	(C)
KOD051H2		2DD3-050E	—	—	—	—	22.3	4.7	32.6	40	1/2	1-1/8	6X30	25.3	644	(C)
KOD075H2		2DL3-075E	—	—	—	—	31.6	4.7	44.2	60	5/8	1-3/8	8-5/8X32	55.0	712	(C)
KOD080H2		2DA3-075E	—	—	—	—	32.0	9.4	49.4	60	5/8	1-3/8	8-5/8X32	55.0	990	(D)
KOD090H2		3DA3A075E	—	—	—	—	41.0	9.4	60.7	80	5/8	1-3/8	8-5/8X32	55.0	1045	(D)
KOD100H2		3DB3A100E	—	—	—	—	43.6	9.4	63.9	80	7/8	1-3/8	10-3/4X28	72.0	1078	(D)
KOD120H2		3DF3A120E	—	—	—	—	48.2	9.4	69.7	90	7/8	1-3/8	10-3/4X28	72.0	1148	(D)
KOD150H2		3DS3A150E	—	—	—	—	59.6	9.4	83.9	110	7/8	1-5/8	14X24	101.0	1171	(D)

		480/3/60					600/3/60								EST. SHIP	DIMEN-
		COMP	COMP	COND	MIN*	MIN*	COMP	COND	MIN*	MIN*	CONNECTIONS (IN)		RECEIVER (Lbs)		WEIGHT	SIONS
UNIT	MODEL	MODEL	RLA	FLA	AMPS	BREAKER	RLA	FLA	AMPS	BREAKER	LIQ. OD	SUCT. OD	DIA X HEIGHT	CAP.†	(Lbs)	P. 20 & 21
KOD050H2		2DC3-050E	10.4	2.2	15.2	20	7.7	1.2	10.8	15	1/2	1-1/8	6X23	19.7	623	(C)
KOD051H2		2DD3-050E	10.5	2.2	15.3	20	7.9	1.2	11.1	15	1/2	1-1/8	6X30	25.3	644	(C)
KOD075H2		2DL3-075E	13.8	2.2	19.5	25	13.2	1.2	17.7	20	5/8	1-3/8	8-5/8X32	55.0	712	(C)
KOD080H2		2DA3-075E	14.1	4.4	22.0	25	13.3	2.4	19.0	25	5/8	1-3/8	8-5/8X32	55.0	990	(D)
KOD090H2		3DA3A075E	20.0	4.4	29.4	35	16.5	2.4	23.0	30	5/8	1-3/8	8-5/8X32	55.0	1045	(D)
KOD100H2		3DB3A100E	20.0	4.4	29.4	35	16.5	2.4	23.0	30	7/8	1-3/8	10-3/4X28	72.0	1078	(D)
KOD120H2		3DF3A120E	23.6	4.4	33.9	45	—	—	—	—	7/8	1-3/8	10-3/4X28	72.0	1148	(D)
KOD150H2		3DS3A150E	29.0	4.4	40.7	50	23.6	2.4	31.9	40	7/8	1-5/8	14X24	101.0	1171	(D)

† Receiver capacity based on 80 % full.

* Minimum circuit amps and minimum circuit breaker sizes are based on air defrost system. If electric defrost is utilized, evaporator fan amps must be added to both values.

KOS Series Air-Cooled Condensing Units

PERFORMANCE DATA with Copeland Semi-Hermetic / Medium Temperature R-404A

UNIT MODEL	COMPRESSOR MODEL	AMB °F	-5°F SST MBH	-5°F SST kW	0°F SST MBH	0°F SST kW	5°F SST MBH	5°F SST kW	10°F SST MBH	10°F SST kW	15°F SST MBH	15°F SST kW	20°F SST MBH	20°F SST kW	25°F SST MBH	25°F SST kW
KOS005M4	HAJ#-005E	90	2.8	0.5	3.1	0.5	3.6	0.6	4.1	0.6	4.6	0.6	5.1	0.6	5.7	0.7
		95	2.6	0.5	3.0	0.6	3.4	0.6	3.8	0.6	4.3	0.6	4.8	0.6	5.4	0.7
		105	2.3	0.5	2.6	0.6	3.0	0.6	3.4	0.6	3.8	0.6	4.3	0.7	4.8	0.7
KOS010M4	KAR#-010E	90	—	—	5.7	1.0	6.5	1.1	7.3	1.2	8.1	1.2	8.9	1.3	9.8	1.3
		95	—	—	5.4	1.0	6.2	1.1	6.9	1.2	7.7	1.2	8.5	1.3	9.3	1.0
		105	—	—	4.8	1.1	5.5	1.1	6.2	1.2	6.9	1.3	7.6	1.3	8.3	1.4
KOS015M4	KAG#-015E	90	6.0	1.3	6.9	1.3	7.7	1.4	8.7	1.4	9.7	1.4	10.8	1.5	11.9	1.5
		95	5.7	1.3	6.5	1.3	7.3	1.4	8.3	1.4	9.2	1.5	10.2	1.5	11.3	1.5
		105	5.0	1.3	5.8	1.4	6.6	1.4	7.4	1.5	8.3	1.5	9.2	1.6	10.1	1.6
KOS020M4	KAK#-021E	90	8.1	1.7	9.3	1.8	10.4	1.9	11.5	1.9	12.7	2.0	14.1	2.0	15.7	2.1
		95	7.7	1.7	8.9	1.8	9.9	1.9	11.0	1.9	12.1	2.0	13.4	2.1	14.9	2.2
		105	6.9	1.8	7.9	1.9	8.9	1.9	9.8	2.0	10.8	2.1	11.9	2.1	13.3	2.2
KOS021M4	ERC#-021E	90	9.7	1.8	11.1	1.9	12.5	2.0	14.0	2.1	15.5	2.3	17.2	2.4	19.0	2.5
		95	9.1	1.8	10.5	1.9	11.8	2.0	13.2	2.2	14.6	2.3	16.2	2.4	17.9	2.6
		105	8.0	1.8	9.2	2.0	10.4	2.1	11.6	2.2	12.9	2.4	14.3	2.5	15.8	2.7
KOS030M4	ERF#-031E	90	15.0	2.5	17.1	2.6	19.2	2.8	21.5	3.0	24.0	3.1	26.6	3.3	29.5	3.4
		95	14.1	2.5	16.2	2.7	18.2	2.8	20.4	3.0	22.7	3.2	25.2	3.4	27.9	3.5
		105	12.4	2.6	14.3	2.7	16.1	2.9	18.1	3.1	20.2	3.3	22.5	3.5	24.9	3.7
KOS031M4	3RA#-031E	90	16.8	3.0	19.3	3.2	21.9	3.4	24.8	3.6	27.8	3.9	30.9	4.1	34.3	4.3
		95	15.6	3.0	18.0	3.2	20.6	3.5	23.2	3.7	26.1	3.9	29.1	4.2	32.3	4.4
		105	13.4	3.0	15.6	3.3	17.8	3.5	20.2	3.8	22.7	4.0	25.4	4.3	28.2	4.6

SPECIFICATIONS

		240/1/60					208-240/3/60								EST. SHIP	DIMEN-
UNIT MODEL	COMP MODEL	COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	CONNECTIONS (IN) LIQ. OD	SUCT. OD	RECEIVER (Lbs) DIA X HEIGHT	CAP.†	WEIGHT (Lbs)	SIONS P. 20 & 21
KOS005M4	HAJ#-005E	3.7	3.2	7.8	15	—	—	—	—	3/8	7/8	5X16	8.3	265	(A)
KOS010M4	KAR#-010E	7.4	3.2	12.5	15	4.3	3.2	8.6	15	3/8	7/8	5X16	8.3	286	(A)
KOS015M4	KAG#-015E	7.5	6.4	15.8	20	4.3	6.4	11.8	15	3/8	7/8	5X16	8.3	298	(B)
KOS020M4	KAK#-021E	10.6	6.4	19.7	30	6.8	6.4	14.9	20	1/2	7/8	6X18	13.6	311	(B)
KOS021M4	ERC#-021E	—	—	—	—	8.8	6.4	17.4	20	1/2	7/8	6X18	13.6	373	(B)
KOS030M4	ERF#-031E	17.0	4.7	26.0	30	12.4	4.7	20.2	25	1/2	1-1/8	6X23	17.5	510	(C)
KOS031M4	3RA#-031E	—	—	—	—	14.5	4.7	22.8	30	1/2	1-1/8	6X23	17.5	510	(C)

		480/3/60				600/3/60								EST. SHIP	DIMEN-
UNIT MODEL	COMP MODEL	COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	CONNECTIONS (IN) LIQ. OD	SUCT. OD	RECEIVER (Lbs) DIA X HEIGHT	CAP.†	WEIGHT (Lbs)	SIONS P. 20 & 21
KOS005M4	HAJ#-005E	—	—	—	—	—	—	—	—	3/8	7/8	5X16	8.3	265	(A)
KOS010M4	KAR#-010E	—	—	—	—	—	—	—	—	3/8	7/8	5X16	8.3	286	(A)
KOS015M4	KAG#-015E	—	—	—	—	—	—	—	—	3/8	7/8	5X16	8.3	298	(B)
KOS020M4	KAK#-021E	—	—	—	—	—	—	—	—	1/2	7/8	6X18	13.6	311	(B)
KOS021M4	ERC#-021E	—	—	—	—	—	—	—	—	1/2	7/8	6X18	13.6	373	(B)
KOS030M4	ERF#-031E	5.8	2.2	9.5	15	5.2	1.2	7.7	15	1/2	1-1/8	6X23	17.5	510	(C)
KOS031M4	3RA#-031E	6.3	2.2	10.1	15	—	—	—	—	1/2	1-1/8	6X23	17.5	510	(C)

† Receiver capacity based on 80 % full.

* Minimum circuit amps and minimum circuit breaker sizes are based on air defrost system. If electric defrost is utilized, evaporator fan amps must be added to both values.

An alpha designation "B" in this field indicates single phase models; an alpha designation "A" in this field indicates three phase models.

NOTE: May also be used with R-507. For capacity, multiply by 1.03; kW X 1.02

KOD Series Air-Cooled Condensing Units

PERFORMANCE DATA with Copeland Discus / Medium Temperature R-404A

AMB	-5°F SST		-0°F SST		5°F SST		10°F SST		15°F SST		20°F SST		25°F SST		30°F SST		35°F SST	
°F	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
KOD050M4	**2DC3-050E**																	
90	21.9	3.3	24.8	3.5	27.9	3.7	31.2	3.9	34.8	4.1	38.6	4.4	42.5	4.6	46.7	4.8	51.0	5.0
95	20.7	3.3	23.5	3.5	26.4	3.8	29.6	4.0	33.0	4.2	36.5	4.5	40.3	4.7	44.2	4.9	48.3	5.2
105	18.5	3.4	21.0	3.6	23.6	3.9	26.4	4.1	29.4	4.4	32.6	4.6	35.9	4.9	39.4	5.1	43.0	5.4
KOD051M4	**2DD3-050E**																	
90	27.1	3.9	30.7	4.1	34.5	4.3	38.6	4.6	43.0	4.8	47.7	5.1	52.6	5.4	57.7	5.6	63.0	5.9
95	25.8	3.9	29.2	4.2	32.8	4.4	36.7	4.7	40.8	4.9	45.3	5.2	49.9	5.5	54.8	5.8	59.8	6.0
105	23.2	4.1	26.2	4.3	29.4	4.6	32.8	4.8	36.5	5.1	40.4	5.4	44.6	5.7	48.8	6.0	53.3	6.3
KOD075M4	**2DL3-075E**																	
90	33.7	4.9	38.1	5.2	42.6	5.5	47.4	5.8	52.2	6.1	57.6	6.4	63.3	6.8	69.3	7.1	75.4	7.4
95	32.1	4.9	36.3	5.3	40.5	5.6	45.1	5.9	49.7	6.2	54.8	6.6	60.2	6.9	65.8	7.3	71.6	7.6
105	28.9	5.1	32.7	5.4	36.5	5.8	40.6	6.3	44.7	6.5	48.3	6.8	54.0	7.2	58.9	7.6	64.1	8.0
KOD080M4	**2DA3-075E**																	
90	39.4	5.7	44.0	6.0	48.8	6.4	53.9	6.8	59.3	7.1	64.9	7.5	70.9	7.9	77.0	8.3	83.4	8.7
95	37.5	5.8	41.9	6.1	46.5	6.5	51.3	6.9	56.4	7.3	61.8	7.7	67.3	8.1	73.1	8.5	79.2	8.9
105	33.6	5.9	37.6	6.3	41.8	6.7	46.1	7.1	50.7	7.5	55.4	7.9	60.4	8.4	65.5	8.8	70.8	9.3
KOD090M4	**3DA3A075E**																	
90	48.0	6.6	53.8	7.0	60.4	7.4	67.2	7.8	74.5	8.2	82.3	8.6	90.5	8.9	99.1	9.3	108.2	9.6
95	46.1	6.8	51.7	7.2	57.9	7.6	64.4	8.0	71.3	8.4	78.6	8.8	86.4	9.2	94.5	9.6	103.1	9.9
105	42.3	7.1	47.4	7.5	53.1	8.0	58.9	8.4	65.0	8.8	71.5	9.3	78.4	9.7	85.7	10.1	93.2	10.5
KOD100M4	**3DB3A100E**																	
90	57.0	8.1	64.2	8.6	71.4	9.1	79.0	9.6	87.1	10.1	95.7	10.6	104.7	11.1	114.2	11.6	123.5	12.0
95	54.5	8.3	61.5	8.8	68.3	9.4	75.6	9.9	83.2	10.4	91.3	10.9	99.8	11.4	108.8	11.9	117.6	12.4
105	49.5	8.6	55.9	9.2	62.1	9.8	68.6	10.3	75.4	10.9	82.6	11.4	90.2	12.0	98.1	12.6	105.8	13.1
KOD120M4	**3DF3A120E**																	
90	69.9	10.2	78.5	10.8	87.1	11.5	96.3	12.1	106.0	12.8	116.2	13.4	127.0	14.1	137.5	14.8	149.2	15.5
95	66.7	10.4	74.9	11.1	83.3	11.7	92.0	12.4	101.2	13.1	110.8	13.8	121.0	14.5	130.9	15.2	141.8	15.9
105	60.6	10.8	68.1	11.5	75.7	12.2	83.4	12.9	91.5	13.7	100.1	14.4	109.0	15.2	117.7	15.9	127.3	16.7
KOD150M4	**3DS3A150E**																	
90	76.6	11.4	85.9	12.1	95.1	12.8	105.0	13.6	115.4	14.3	126.3	15.1	136.9	15.9	148.7	16.7	160.9	17.5
95	73.2	11.6	82.1	12.4	90.9	13.1	100.2	13.9	110.0	14.6	120.3	15.4	130.4	16.2	141.4	17.1	152.9	17.9
105	66.5	12.0	74.6	12.8	82.5	13.6	90.8	14.4	99.5	15.3	108.6	16.1	117.4	17.0	127.1	17.9	137.1	18.8

SPECIFICATIONS

	240/1/60					208-240/3/60								EST. SHIP	DIMEN-
	COMP	COMP	COND	MIN*	MIN*	COMP	COND	MIN*	MIN*	CONNECTIONS (IN)		RECEIVER (Lbs)		WEIGHT	SIONS
UNIT MODEL	MODEL	RLA	FLA	AMPS	BREAKER	RLA	FLA	AMPS	BREAKER	LIQ. OD	SUCT.OD	DIA X HEIGHT	CAP.†	(Lbs)	P. 20 &21
KOD050M4	2DC3-050E	—	—	—	—	22.3	4.7	32.6	40	1/2	1-1/8	6X23	17.5	623	(C)
KOD051M4	2DD3-050E	—	—	—	—	22.3	4.7	32.6	40	1/2	1-1/8	6X30	22.5	644	(C)
KOD075M4	2DL3-075E	—	—	—	—	31.6	4.7	44.2	60	5/8	1-3/8	8-5/8X32	49.0	712	(C)
KOD080M4	2DA3-075E	—	—	—	—	32.0	4.7	44.7	60	5/8	1-3/8	8-5/8X32	49.0	712	(C)
KOD090M4	3DA3A075E	—	—	—	—	41.0	9.4	60.7	80	5/8	1-3/8	8-5/8X32	49.0	1045	(D)
KOD100M4	3DB3A100E	—	—	—	—	43.6	9.4	63.9	80	7/8	1-3/8	10-3/4X28	64.1	1078	(D)
KOD120M4	3DF3A120E	—	—	—	—	48.2	9.4	69.7	90	7/8	1-3/8	10-3/4X28	64.1	1123	(D)
KOD150M4	3DS3A150E	—	—	—	—	59.6	9.4	83.9	110	7/8	1-5/8	14X24	89.9	1161	(D)

	480/3/60					600/3/60								EST. SHIP	DIMEN-
	COMP	COMP	COND	MIN*	MIN*	COMP	COND	MIN*	MIN*	CONNECTIONS (IN)		RECEIVER (Lbs)		WEIGHT	SIONS
UNIT MODEL	MODEL	RLA	FLA	AMPS	BREAKER	RLA	FLA	AMPS	BREAKER	LIQ. OD	SUCT.OD	DIA X HEIGHT	CAP.†	(Lbs)	P. 20 &21
KOD050M4	2DC3-050E	10.4	2.2	15.2	20	7.7	1.2	10.8	15	1/2	1-1/8	6X23	17.5	623	(C)
KOD051M4	2DD3-050E	10.5	2.2	15.3	20	7.9	1.2	11.1	15	1/2	1-1/8	6X30	22.5	644	(C)
KOD075M4	2DL3-075E	13.8	2.2	19.5	25	13.2	1.2	17.7	20	5/8	1-3/8	8-5/8X32	49.0	712	(C)
KOD080M4	2DA3-075E	14.1	2.2	19.8	25	13.3	1.2	17.8	20	5/8	1-3/8	8-5/8X32	49.0	712	(C)
KOD090M4	3DA3A075E	20.0	4.4	29.4	35	16.5	2.4	23.0	30	5/8	1-3/8	8-5/8X32	49.0	1045	(D)
KOD100M4	3DB3A100E	20.0	4.4	29.4	35	16.5	2.4	23.0	30	7/8	1-3/8	10-3/4X28	64.1	1078	(D)
KOD120M4	3DF3A120E	23.6	4.4	33.9	45	—	—	—	—	7/8	1-3/8	10-3/4X28	64.1	1123	(D)
KOD150M4	3DS3A150E	29.0	4.4	40.7	50	23.6	2.4	33.3	40	7/8	1-5/8	14X24	89.9	1161	(D)

† Receiver capacity based on 80 % full.

* Minimum circuit amps and minimum circuit breaker sizes are based on air defrost system. If electric defrost is utilized, evaporator fan amps must be added to both values.

NOTE: May also be used with R-507. For capacity, multiply by 1.03; kW X 1.02

KOS Series Air-Cooled Condensing Units

PERFORMANCE DATA with Copeland Semi-Hermetic / Low Temperature R-22

UNIT MODEL	COMP MODEL	-40°F SST		-35°F SST		-30°F SST		-25°F SST		-20°F SST		-15°F SST		-10°F SST		-5°F SST		0°F SST	
AMB °F		MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
KOS008L2	KAMB-0075																		
90		1.7	0.5	2.1	0.6	2.5	0.6	2.9	0.7	3.4	0.7	4.0	0.8	4.6	0.8	5.3	0.8	6.0	0.9
95		1.6	0.5	2.0	0.6	2.4	0.6	2.8	0.7	3.3	0.7	3.8	0.8	4.4	0.8	5.1	0.9	5.7	0.9
105		1.4	0.5	1.8	0.6	2.1	0.6	2.6	0.7	3.0	0.7	3.5	0.8	4.1	0.8	4.7	0.9	5.3	0.9
KOS010L2	KAJB-01010																		
90		2.2	0.6	2.7	0.7	3.2	0.8	3.7	0.8	4.3	0.9	5.0	0.9	5.7	1.0	6.5	1.0	7.4	1.1
95		2.1	0.6	2.5	0.7	3.0	0.8	3.5	0.8	4.1	0.9	4.8	0.9	5.5	1.0	6.3	1.1	7.1	1.1
105		1.8	0.6	2.3	0.7	2.7	0.8	3.2	0.8	3.8	0.9	4.4	1.0	5.0	1.0	5.8	1.1	6.6	1.2
KOS015L2	KAK#-0200																		
90		2.4	0.7	3.0	0.8	3.5	0.8	4.2	0.9	4.9	1.0	5.7	1.0	6.5	1.1	7.5	1.2	8.6	1.3
95		2.3	0.7	2.8	0.8	3.3	0.8	4.0	0.9	4.6	1.0	5.4	1.0	6.2	1.1	7.2	1.2	8.2	1.3
105		2.0	0.7	2.4	0.8	2.9	0.8	3.5	0.9	4.1	1.0	4.8	1.1	5.6	1.2	6.5	1.2	7.5	1.3
KOS020L2	EAV#-0210																		
90		4.1	1.1	4.8	1.2	5.6	1.3	6.8	1.4	8.1	1.5	9.5	1.7	11.1	1.9	12.7	2.0	14.4	2.2
95		3.9	1.1	4.5	1.2	5.4	1.3	6.4	1.4	7.7	1.6	9.1	1.7	10.6	1.9	12.2	2.1	13.8	2.2
105		3.5	1.0	4.0	1.1	4.8	1.3	5.7	1.4	6.9	1.6	8.2	1.7	9.6	1.9	11.0	2.1	12.5	2.3
KOS025L2	LAH#-031#																		
90		5.6	1.7	7.0	1.8	8.7	2.0	10.6	2.2	12.7	2.5	15.0	2.7	17.5	2.9	20.2	3.2	23.1	3.4
95		5.3	1.7	6.7	1.9	8.3	2.1	10.1	2.3	12.2	2.5	14.4	2.7	16.8	3.0	19.4	3.2	22.2	3.5
105		4.7	1.6	6.0	1.8	7.4	2.1	9.1	2.3	11.0	2.5	13.1	2.8	15.3	3.0	17.7	3.3	20.2	3.5

Compressor design revision number

SPECIFICATIONS

		240/1/60				208-240/3/60								EST. SHIP	DIMEN-
UNIT MODEL	COMP MODEL	COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	CONNECTIONS (IN) LIQ. OD	SUCT. OD	RECEIVER (Lbs) DIA X HEIGHT	CAP.†	WEIGHT (Lbs)	SIONS P. 20 & 21
KOS008L2	KAMB-0075	5.6	3.2	10.2	15	3.2	3.2	7.2	15	3/8	7/8	5X16	9.3	284	(A)
KOS010L2	KAJB-0101	6.9	3.2	11.8	15	4.5	3.2	8.8	15	3/8	7/8	5X16	9.3	286	(A)
KOS015L2	KAK#-0200	10.6	6.4	19.7	30	6.8	6.4	14.9	20	1/2	7/8	6X18	15.3	311	(B)
KOS020L2	EAV#-0210	14.7	6.4	24.8	30	7.4	6.4	15.7	20	1/2	7/8	6X18	15.3	373	(B)
KOS025L2	LAH#-031#	16.6	4.7	25.5	30	10.7	4.7	18.1	20	1/2	1-1/8	6X23	19.7	543	(C)

		480/3/60				600/3/60								EST. SHIP	DIMEN-
UNIT MODEL	COMP MODEL	COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	CONNECTIONS (IN) LIQ. OD	SUCT. OD	RECEIVER (Lbs) DIA X HEIGHT	CAP.†	WEIGHT (Lbs)	SIONS P. 20 & 21
KOS008L2	KAMB-0075	—	—	—	—	—	—	—	—	3/8	7/8	5X16	9.3	284	(A)
KOS010L2	KAJB-0101	—	—	—	—	—	—	—	—	3/8	7/8	5X16	9.3	286	(A)
KOS015L2	KAK#-0200	3.0	3.2	7.0	15	—	—	—	—	1/2	7/8	6X18	15.3	311	(B)
KOS020L2	EAV#-0210	3.9	3.2	8.1	15	CONSULT FACTORY				1/2	7/8	6X18	15.3	373	(B)
KOS025L2	LAH#-031#	6.0	2.2	9.7	15	4.1	1.2	6.3	15	1/2	1-1/8	6X23	19.7	543	(C)

† Receiver capacity based on 80 % full.

* Minimum circuit amps and minimum circuit breaker sizes are based on air defrost system. If electric defrost is utilized, evaporator fan amps must be added to both values.

Compressor design revision number

KOD Series Air-Cooled Condensing Units

PERFORMANCE DATA with Copeland Discus / Low Temperature R-22

UNIT MODEL	AMB °F	-40°F SST MBH	-40°F SST kW	-35°F SST MBH	-35°F SST kW	-30°F SST MBH	-30°F SST kW	-25°F SST MBH	-25°F SST kW	-20°F SST MBH	-20°F SST kW	-15°F SST MBH	-15°F SST kW	-10°F SST MBH	-10°F SST kW	-5°F SST MBH	-5°F SST kW	0°F SST MBH	0°F SST kW
KOD030L2				2DF3-030E															
	90	8.2	2.0	10.1	2.3	12.0	2.5	14.2	2.8	16.6	3.0	19.4	3.2	22.4	3.4	25.9	3.7	29.8	4.0
	95	7.6	2.0	9.4	2.3	11.3	2.5	13.4	2.8	15.8	3.0	18.4	3.3	21.3	3.5	24.7	3.8	28.4	4.1
	105	6.2	1.9	8.0	2.2	9.8	2.5	11.8	2.8	14.0	3.1	16.5	3.3	19.2	3.5	22.3	3.9	25.8	4.2
KOD040L2				2DL3-040E															
	90	9.6	2.4	11.7	2.7	14.1	3.0	16.8	3.3	19.8	3.5	23.0	3.8	26.6	4.1	30.3	4.4	34.4	4.7
	95	8.9	2.4	10.9	2.7	13.2	3.0	15.8	3.3	18.7	3.6	21.9	3.9	25.3	4.2	29.0	4.5	32.9	4.8
	105	7.6	2.4	9.4	2.7	11.5	3.0	13.9	3.3	16.6	3.6	19.6	4.0	22.8	4.3	26.2	4.6	29.9	4.9
KOD050L2				2DB3-060E															
	90	12.6	3.0	15.3	3.3	18.2	3.6	21.4	3.9	24.9	4.3	28.8	4.6	33.5	4.9	38.8	5.2	44.5	5.5
	95	11.9	3.0	14.5	3.3	17.3	3.6	20.3	4.0	23.7	4.3	27.5	4.7	32.7	5.0	37.2	5.3	42.9	5.6
	105	10.4	3.0	12.7	3.3	15.3	3.7	18.1	4.0	21.3	4.4	24.8	4.8	28.7	5.2	33.3	5.5	39.0	5.9
KOD060L2				3DA3A060E															
	90	14.2	3.5	17.1	3.9	20.3	4.3	23.9	4.7	28.0	5.0	32.6	5.4	37.9	5.7	43.8	6.1	50.3	6.4
	95	13.2	3.5	16.1	3.9	19.2	4.3	22.7	4.7	26.5	5.1	31.2	5.5	36.4	5.8	42.2	6.2	48.5	6.5
	105	11.2	3.5	13.9	3.9	16.9	4.4	20.2	4.8	23.8	5.3	27.8	5.7	32.7	6.1	38.1	6.5	44.1	6.9
KOD080L2				3DB3A075E															
	90	18.0	4.2	21.7	4.7	25.5	5.1	29.6	5.6	34.3	6.0	39.2	6.5	44.6	7.0	50.5	7.5	57.6	8.0
	95	16.8	4.3	20.3	4.7	24.0	5.2	28.0	5.7	32.4	6.1	37.4	6.6	42.7	7.1	48.5	7.7	55.5	8.1
	105	14.1	4.3	17.6	4.8	21.1	5.3	25.0	5.8	29.2	6.3	34.0	6.8	39.1	7.4	44.7	8.0	50.8	8.6
KOD090L2				3DF3A090E															
	90	21.6	5.2	26.1	5.7	31.0	6.1	36.6	6.7	42.9	7.2	49.5	7.8	56.7	8.3	64.4	8.9	73.1	9.3
	95	20.6	5.3	24.5	5.8	29.4	6.2	34.8	6.8	40.7	7.3	47.4	7.9	54.4	8.5	62.0	9.1	70.1	9.6
	105	17.9	5.4	21.6	5.9	26.1	6.4	31.1	7.0	36.7	7.6	42.8	8.2	49.8	8.8	57.1	9.4	65.0	10.1
KOD100L2				3DS3A100E															
	90	23.2	5.8	28.2	6.3	33.6	6.9	39.7	7.4	44.1	8.1	50.9	8.7	58.4	9.4	66.4	10.1	78.6	10.4
	95	22.0	5.9	26.8	6.4	32.0	7.0	37.9	7.5	42.1	8.3	48.7	8.9	55.9	9.6	63.8	10.3	75.8	10.7
	105	19.5	6.1	23.9	6.6	28.7	7.2	33.9	7.9	37.6	8.5	43.7	9.2	50.8	10.0	58.2	10.7	70.0	11.2
KOD150L2				4DL3-150E															
	90	31.6	8.2	38.7	9.0	46.0	9.8	54.2	10.7	62.8	11.5	72.0	12.4	82.1	13.3	93.0	14.3	104.9	15.3
	95	29.4	8.3	36.3	9.1	43.4	10.0	51.5	10.9	59.8	11.8	68.8	12.7	78.6	13.7	89.3	14.7	100.9	15.7
	105	25.0	8.4	31.5	9.3	38.2	10.3	45.4	11.2	53.2	12.2	61.8	13.2	71.5	14.2	81.6	15.3	92.6	16.5
KOD200L2				4DT3-220E															
	90	37.7	9.7	46.7	10.8	55.1	11.9	63.7	12.8	72.9	13.8	83.1	14.7	94.4	15.8	107.1	17.0	122.9	18.1
	95	36.2	9.8	44.3	11.0	52.7	12.1	61.1	13.1	70.1	14.1	79.9	15.1	90.8	16.2	103.1	17.4	118.5	18.6
	105	31.5	10.0	39.5	11.2	47.2	12.4	55.1	13.5	63.8	14.6	72.9	15.7	83.0	16.9	93.7	18.1	106.3	19.5

SPECIFICATIONS

UNIT MODEL	208-240/1/60 COMP MODEL	COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	208-240/3/60 COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	CONNECTIONS (IN) LIQ. OD	SUCT. OD	RECEIVER (Lbs) DIA X HEIGHT	CAP.†	EST. SHIP WEIGHT (Lbs)	DIMENSIONS P. 20 & 21
KOD030L2	2DF3-030E	25.8	4.7	37.0	45	16.8	4.7	25.7	30	1/2	1-1/8	6X23	19.7	613	(C)
KOD040L2	2DL3-040E	—	—	—	—	26.3	4.7	37.6	50	1/2	1-1/8	6X23	19.7	613	(C)
KOD050L2	2DB3-060E	—	—	—	—	28.2	4.7	40.0	50	1/2	1-1/8	6X30	25.3	643	(C)
KOD060L2	3DA3A060E	—	—	—	—	30.3	4.7	42.6	50	5/8	1-3/8	6X30	25.3	726	(C)
KOD080L2	3DB3A075E	—	—	—	—	31.5	4.7	44.1	50	5/8	1-3/8	8-5/8X32	55.0	757	(C)
KOD090L2	3DF3A075E	—	—	—	—	39.0	9.4	58.2	70	5/8	1-3/8	8-5/8X32	55.0	1045	(D)
KOD100L2	3DS3A100E	—	—	—	—	42.0	9.4	61.9	80	5/8	1-5/8	10-3/4X28	72.0	1102	(D)
KOD150L2	4DL3-150E	—	—	—	—	52.6	9.4	75.2	100	7/8	2-1/8	14X24	101.0	1215	(D)
KOD150L2	4DT3-220E	—	—	—	—	66.0	9.4	91.9	110	7/8	2-1/8	14X24	101.0	1223	(D)

UNIT MODEL	460/3/60 COMP MODEL	COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	600/3/60 COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	CONNECTIONS (IN) LIQ. OD	SUCT. OD	RECEIVER (Lbs) DIA X HEIGHT	CAP.†	EST. SHIP WEIGHT (Lbs)	DIMENSIONS P. 20 & 21
KOD030L2	2DF3-030E	8.1	2.2	12.3	15	6.7	1.2	9.6	15	1/2	1-1/8	6X23	19.7	613	(C)
KOD040L2	2DL3-040E	10.2	2.2	15.0	20	7.7	1.2	10.8	15	1/2	1-1/8	6X23	19.7	613	(C)
KOD050L2	2DB3-060E	13.3	2.2	18.8	25	9.6	1.2	13.2	15	1/2	1-1/8	6X30	25.3	643	(C)
KOD060L2	3DA3A060E	16.8	2.2	23.2	30	10.5	1.2	14.3	20	5/8	1-3/8	6X30	25.3	726	(C)
KOD080L2	3DB3A075E	16.1	2.2	22.3	30	11.0	1.2	15.0	20	5/8	1-3/8	8-5/8X32	55.0	757	(C)
KOD090L2	3DF3A075E	16.9	4.4	25.5	30	16.5	2.4	23.0	30	5/8	1-3/8	8-5/8X32	55.0	1045	(D)
KOD100L2	3DS3A100E	18.6	4.4	27.7	35	16.8	2.4	23.4	30	5/8	1-5/8	10-3/4X28	72.0	1102	(D)
KOD150L2	4DL3-150E	26.3	4.4	37.3	50	20.9	2.4	28.5	35	7/8	2-1/8	14X24	101.0	1215	(D)
KOD200L2	4DT3-220E	33.0	4.4	45.7	60	24.2	2.4	32.7	40	7/8	2-1/8	14X24	101.0	1223	(D)

† Receiver capacity based on 80% full.

* Minimum circuit amps and minimum circuit breaker sizes are based on air defrost system. If electric defrost is utilized, evaporator fan amps must be added to both values.

KOS Series Air-Cooled Condensing Units

PERFORMANCE DATA with Copeland Semi-hermetic / Low Temperature R-404A

UNIT MODEL	COMP MODEL	AMB °F	-40°F SST MBH	-40°F SST kW	-35°F SST MBH	-35°F SST kW	-30°F SST MBH	-30°F SST kW	-25°F SST MBH	-25°F SST kW	-20°F SST MBH	-20°F SST kW	-15°F SST MBH	-15°F SST kW	-10°F SST MBH	-10°F SST kW	-5°F SST MBH	-5°F SST kW	0°F SST MBH	0°F SST kW
KOS008L4	KAM#-007E																			
		90	2.0	0.6	2.3	0.6	2.6	0.7	3.1	0.7	3.6	0.8	4.2	0.8	4.8	0.9	5.5	0.9	6.2	1.0
		95	1.9	0.6	2.1	0.6	2.5	0.7	2.9	0.7	3.4	0.8	4.0	0.8	4.6	0.9	5.2	1.0	5.9	1.0
		105	1.6	0.6	1.8	0.6	2.1	0.7	2.5	0.7	3.0	0.8	3.5	0.9	4.1	0.9	4.6	1.0	5.2	1.1
KOS010L4	KAJ#-010E																			
		90	2.5	0.7	3.0	0.8	3.6	0.8	4.1	0.9	4.8	1.0	5.5	1.0	6.2	1.1	7.0	1.2	7.9	1.3
		95	2.3	0.7	2.8	0.8	3.3	0.8	3.9	0.9	4.5	1.0	5.1	1.1	5.9	1.1	6.6	1.2	7.5	1.3
		105	2.0	0.7	2.4	0.8	2.8	0.8	3.3	0.9	3.9	1.0	4.5	1.1	5.1	1.2	2.8	1.2	6.6	1.3
KOS015L4	KAL#-015E																			
		90	3.9	1.1	4.6	1.2	5.3	1.3	6.2	1.4	7.1	1.5	8.0	1.6	9.1	1.7	10.2	1.8	11.3	1.9
		95	3.7	1.1	4.3	1.2	5.0	1.3	5.8	1.4	6.7	1.5	7.6	1.6	8.6	1.7	9.7	1.8	10.8	1.9
		105	3.2	1.1	3.7	1.2	4.4	1.3	5.1	1.4	5.9	1.5	6.8	1.6	7.7	1.8	8.7	1.9	9.6	2.0
KOS020L4	EAV#-021E																			
		90	4.3	1.2	5.1	1.3	6.1	1.5	7.3	1.6	8.6	1.8	10.0	1.9	11.5	2.1	13.1	2.3	14.7	2.5
		95	3.9	1.2	4.7	1.3	5.7	1.5	6.8	1.6	8.1	1.8	9.4	2.0	10.8	2.1	12.3	2.3	13.8	2.5
		105	3.4	1.2	4.1	1.3	5.0	1.5	5.9	1.6	7.0	1.8	8.2	2.0	9.5	2.1	10.8	2.3	12.2	2.5
KOS021L4	3AB#-032E																			
		90	5.8	1.8	6.8	1.9	8.0	2.0	9.5	2.1	11.1	2.3	12.8	2.5	14.7	2.7	16.7	2.8	18.8	3.0
		95	5.4	1.8	6.3	1.9	7.5	2.0	8.8	2.2	10.4	2.3	12.0	2.5	13.8	2.7	15.7	2.9	17.7	3.0
		105	4.6	1.8	5.4	1.9	6.4	2.0	7.6	2.2	8.9	2.3	10.4	2.5	12.1	2.7	13.8	2.9	15.6	3.1
KOS025L4	LAH#-032E																			
		90	6.6	2.2	8.2	2.4	10.1	2.6	12.1	2.8	14.3	3.0	16.7	3.3	19.2	3.5	21.9	3.8	24.7	4.0
		95	5.9	2.1	7.5	2.3	9.3	2.5	11.3	2.8	13.4	3.0	15.6	3.3	18.0	3.5	20.6	3.8	23.2	4.0
		105	4.5	2.0	6.0	2.2	7.7	2.5	9.6	2.7	11.5	3.0	13.6	3.2	15.8	3.5	18.0	3.8	20.4	4.0

Compressor design revision number

SPECIFICATIONS

UNIT MODEL	240/1/60 COMP MODEL	COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	208-240/3/60 COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	CONNECTIONS (IN) LIQ. OD	SUCT. OD	RECEIVER (Lbs) DIA X HEIGHT	CAP.†	EST. SHIP WEIGHT (Lbs)	DIMENSIONS P. 20 & 21
KOS008L4	KAM#-007E	5.4	3.2	10.0	15	3.4	3.2	7.5	15	3/8	7/8	5X16	8.3	284	(A)
KOS010L4	KAJ#-010E	6.9	3.2	11.8	15	4.6	3.2	9.0	15	3/8	7/8	5X16	8.3	286	(A)
KOS015L4	KAL#-015E	9.9	6.4	18.8	20	6.6	6.4	14.7	20	1/2	7/8	6X18	13.6	311	(B)
KOS020L4	EAV#-021E	14.7	6.4	24.8	30	7.4	6.4	15.7	20	1/2	7/8	6X18	13.6	373	(B)
KOS021L4	3AB#-032E	14.7	4.7	23.1	30	10.0	4.7	17.2	20	1/2	1-1/8	6X23	17.5	523	(C)
KOS025L4	LAH#-032E	16.7	4.7	25.6	30	12.8	4.7	20.7	25	1/2	1-1/8	6X23	17.5	543	(C)

UNIT MODEL	460/3/60 COMP MODEL	COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	600/3/60 COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	CONNECTIONS (IN) LIQ. OD	SUCT. OD	RECEIVER (Lbs) DIA X HEIGHT	CAP.†	EST. SHIP WEIGHT (Lbs)	DIMENSIONS P. 20 & 21
KOS008L4	KAM#-007E	—	—	—	—	—	—	—	—	3/8	7/8	5X16	8.3	284	(A)
KOS010L4	KAJ#-010E	—	—	—	—	—	—	—	—	3/8	7/8	5X16	8.3	286	(A)
KOS015L4	KAL#-015E	2.9	3.2	11.0	15	—	—	—	—	1/2	7/8	6X18	13.6	311	(B)
KOS020L4	EAV#-021E	3.9	3.2	12.7	15	CONSULT FACTORY				1/2	7/8	6X18	13.6	373	(B)
KOS021L4	3AB#-032E	—	—	—	—	—	—	—	—	1/2	1-1/8	6X23	17.5	523	(C)
KOS025L4	LAH#-032E	6.0	2.2	9.7	15	4.1	1.2	6.3	15	1/2	1-1/8	6X23	17.5	543	(C)

† Receiver capacity based on 80% full.

* Minimum circuit amps and minimum circuit breaker sizes are based on air defrost system. If electric defrost is utilized, evaporator fan amps must be added to both values.

An alpha designation "B" in this field indicates single phase models; an alpha designation "A" in this field indicates three phase models.

NOTE: May also be used with R-507. For capacity, multiply by 1.03; kW X 1.02

KOD Series Air-Cooled Condensing Units

PERFORMANCE DATA with Copeland Discus / Low Temperature R-404A

UNIT MODEL	AMB. °F	-40°F SST MBH	-40°F SST kW	-35°F SST MBH	-35°F SST kW	-30°F SST MBH	-30°F SST kW	-25°F SST MBH	-25°F SST kW	-20°F SST MBH	-20°F SST kW	-15°F SST MBH	-15°F SST kW	-10°F SST MBH	-10°F SST kW	-5°F SST MBH	-5°F SST kW	0°F SST MBH	0°F SST kW
KOD030L4				2DF3-030E															
	90	10.5	2.5	12.5	2.8	14.6	3.1	16.9	3.4	19.5	3.6	22.2	3.9	25.1	4.1	28.2	4.4	31.5	4.7
	95	9.7	2.5	11.7	2.8	13.8	3.1	16.0	3.4	18.4	3.7	21.1	3.9	23.8	4.2	26.8	4.5	29.9	4.7
	105	8.2	2.4	10.0	2.7	12.0	3.1	14.1	3.4	16.4	3.7	18.8	4.0	21.3	4.3	23.9	4.6	26.7	4.9
KOD040L4				2DL3-040E															
	90	12.7	2.9	15.0	3.2	17.5	3.5	20.2	3.8	23.1	4.1	26.2	4.5	29.5	4.8	33.0	5.1	36.7	5.4
	95	11.8	2.9	14.1	3.2	16.5	3.5	19.1	3.8	21.9	4.2	24.8	4.5	28.0	4.8	31.3	5.2	34.8	5.5
	105	10.2	2.8	12.3	3.2	14.5	3.5	16.9	3.9	19.4	4.2	22.1	4.6	24.9	4.9	27.9	5.3	31.1	5.6
KOD050L4				2DB3-060E															
	90	15.9	3.5	18.9	3.9	22.1	4.2	25.5	4.6	29.1	5.0	33.0	5.4	37.1	5.7	41.5	6.1	46.1	6.5
	95	14.9	3.5	17.9	3.9	20.9	4.3	24.2	4.7	27.7	5.0	31.4	5.4	35.3	5.8	39.4	6.2	43.8	6.6
	105	13.2	3.5	15.9	3.9	18.7	4.3	21.7	4.7	24.8	5.2	28.2	5.6	31.7	6.0	35.4	6.4	39.3	6.8
KOD060L4				3DA3A060E															
	90	18.6	4.1	21.7	4.5	25.1	4.9	28.7	5.3	32.6	5.7	36.9	6.2	41.1	6.6	46.2	7.0	51.7	7.4
	95	17.5	4.1	20.5	4.5	23.7	5.0	27.4	5.4	31.2	5.8	35.2	6.3	39.5	6.7	44.1	7.2	49.4	7.6
	105	15.2	4.0	18.1	4.5	21.1	5.0	24.4	5.5	27.9	5.9	31.6	6.4	35.5	6.9	39.6	7.4	43.9	7.9
KOD080L4				3DB3A075E															
	90	21.8	4.9	25.4	5.4	29.4	5.9	33.5	6.4	37.9	6.9	42.7	7.4	47.7	8.0	53.6	8.4	60.4	8.9
	95	20.5	4.9	24.1	5.4	27.8	5.9	32.0	6.5	36.3	7.0	40.8	7.5	45.6	8.1	51.2	8.6	57.7	9.1
	105	17.8	4.8	21.6	5.4	25.0	6.0	28.8	6.6	32.9	7.2	37.1	7.8	41.4	8.4	46.5	8.9	52.3	9.5
KOD090L4				3DF3A090E															
	90	27.3	5.8	31.8	6.4	37.0	6.9	42.4	7.5	48.2	8.1	54.6	8.8	61.4	9.4	69.3	10.0	78.1	10.5
	95	25.9	5.8	30.3	6.4	35.1	7.0	40.5	7.6	46.2	8.3	52.2	8.9	58.8	9.6	66.3	10.2	74.8	10.8
	105	23.1	5.9	27.3	6.5	31.8	7.2	36.8	7.9	42.1	8.5	47.6	9.2	53.6	10.0	60.0	10.7	67.3	11.3
KOD100L4				3DS3A100E															
	90	30.9	6.5	35.9	7.2	41.4	7.9	47.6	8.6	54.0	9.3	60.7	10.0	68.5	10.6	77.1	11.2	86.4	11.8
	95	29.2	6.6	34.1	7.3	39.4	8.0	45.4	8.7	51.5	9.4	58.0	10.1	65.4	10.8	73.7	11.5	82.6	12.1
	105	25.8	6.6	30.4	7.3	35.4	8.1	40.7	8.9	46.7	9.7	52.6	10.5	59.4	11.2	66.9	11.9	75.0	12.6
KOD150L4				4DL3-150E															
	90	41.9	9.2	49.3	10.2	57.0	11.1	64.5	12.0	72.3	12.9	80.7	13.8	89.6	14.7	99.3	15.7	111.0	16.5
	95	39.7	9.3	47.1	10.3	54.5	11.3	61.7	12.2	69.3	13.2	77.2	14.1	85.8	15.1	95.0	16.1	106.2	17.0
	105	35.2	9.2	42.1	10.3	48.7	11.4	55.4	12.5	62.3	13.5	70.0	14.5	77.7	15.6	86.1	16.7	96.4	17.7
KOD200L4				4DT3-220E															
	90	48.3	10.5	56.8	11.7	65.6	12.9	74.6	14.1	83.9	15.3	93.5	16.5	104.2	17.7	114.6	18.9	125.6	20.1
	95	45.2	10.4	53.4	11.7	61.9	13.0	70.7	14.3	79.7	15.5	89.0	16.7	99.3	18.0	109.3	19.2	119.9	20.5
	105	38.3	10.1	46.3	11.6	54.5	13.0	62.8	14.4	71.4	15.7	80.1	17.1	89.2	18.4	99.2	19.8	109.0	21.2

SPECIFICATIONS

UNIT MODEL	208-240/1/60 COMP MODEL	COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	208-240/3/60 COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	CONNECTIONS (IN) LIQ. OD	SUCT. OD	RECEIVER (Lbs) DIA X HEIGHT	CAP.†	EST. SHIP WEIGHT (Lbs)	DIMENSIONS P. 20 & 21
KOD030L4	2DF3-030E	25.8	4.7	37.0	37	16.8	4.7	25.7	30	1/2	1-1/8	6X23	17.5	613	(C)
KOD040L4	2DL3-040E	—	—	—	—	26.3	4.7	37.6	50	1/2	1-1/8	6X23	17.5	613	(C)
KOD050L4	2DB3-060E	—	—	—	—	28.2	4.7	40.0	50	1/2	1-1/8	6X30	22.5	643	(C)
KOD060L4	3DA3A060E	—	—	—	—	30.3	4.7	42.6	50	5/8	1-3/8	8-5/8X32	49.0	726	(C)
KOD080L4	3DB3A075E	—	—	—	—	31.5	4.7	44.1	50	5/8	1-3/8	8-5/8X32	49.0	757	(C)
KOD090L4	3DF3A090E	—	—	—	—	39.0	9.4	58.2	70	5/8	1-3/8	8-5/8X32	49.0	1045	(D)
KOD100L4	3DS3A100E	—	—	—	—	42.0	9.4	61.9	80	5/8	1-5/8	10-3/4X28	64.1	1102	(D)
KOD150L4	4DL3-150E	—	—	—	—	52.6	9.4	75.2	100	7/8	2-1/8	14X24	89.9	1215	(D)
KOD200L4	4DT3-220E	—	—	—	—	66.0	9.4	91.9	110	7/8	2-1/8	14X24	89.9	1223	(D)

UNIT MODEL	480/3/60 COMP MODEL	COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	600/3/60 COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	CONNECTIONS (IN) LIQ. OD	SUCT. OD	RECEIVER (Lbs) DIA X HEIGHT	CAP.†	EST. SHIP WEIGHT (Lbs)	DIMENSIONS P. 20 & 21
KOD030L4	2DF3-030E	8.1	2.2	12.3	15	6.7	1.2	9.6	15	1/2	1-1/8	6X23	17.5	613	(C)
KOD040L4	2DL3-040E	10.2	2.2	15.0	20	7.7	1.2	10.8	15	1/2	1-1/8	6X23	17.5	613	(C)
KOD050L4	2DB3-060E	13.3	2.2	18.8	25	9.6	1.2	13.2	15	1/2	1-1/8	6X30	22.5	643	(C)
KOD060L4	3DA3A060E	13.7	2.2	19.3	25	10.9	1.2	14.8	20	5/8	1-3/8	6X30	22.5	726	(C)
KOD080L4	3DB3A075E	16.1	2.2	22.3	30	11.0	1.2	15.0	20	5/8	1-3/8	8-5/8X32	49.0	757	(C)
KOD090L4	3DF3A090E	16.9	4.4	25.5	30	16.5	2.4	23.0	30	5/8	1-3/8	8-5/8X32	49.0	1045	(D)
KOD100L4	3DS3A100E	18.6	4.4	27.7	35	16.8	2.4	23.4	30	5/8	1-5/8	10-3/4X28	64.1	1102	(D)
KOD150L4	4DL3-150E	26.3	4.4	37.3	50	20.9	2.4	28.5	35	7/8	2-1/8	14X24	89.9	1215	(D)
KOD200L4	4DT3-220E	33.0	4.4	45.7	60	24.2	2.4	32.7	40	7/8	2-1/8	14X24	89.9	1223	(D)

† Receiver capacity based on 80% full.

* Minimum circuit amps and minimum circuit breaker sizes are based on air defrost system. If electric defrost is utilized, evaporator fan amps must be added to both values.

NOTE: May also be used with R-507. For capacity, multiply by 1.03; kW X 1.02

KOB Series Air-Cooled Condensing Units

PERFORMANCE DATA with Bitzer Compressors / High Temperature R-22

AMB	15°F SST		20°F SST		25°F SST		30°F SST		35°F SST		40°F SST	
°F	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
KOB030H2		**2EL-3.2Y**										
90	24.4	2.8	27.5	2.9	30.7	3.0	34.0	3.2	37.6	3.3	41.5	3.4
95	23.9	2.8	26.6	3.0	29.6	3.1	32.8	3.2	36.1	3.4	39.7	3.5
105	22.1	3.0	24.7	3.1	27.5	3.3	30.5	3.4	33.6	3.6	37.0	3.7
KOB050H2		**2Q-4.2Y**										
90	45.0	5.9	50.6	6.3	56.1	6.6	62.0	7.0	68.3	7.4	74.9	7.8
95	32.9	4.2	36.5	4.4	40.4	4.6	44.6	4.8	48.9	5.0	53.6	5.3
105	30.5	4.4	33.9	4.6	37.5	4.8	41.4	5.1	45.5	5.3	50.0	5.6
KOB051H2		**2U-5.2Y**										
90	40.1	4.6	44.9	4.8	50.1	5.0	55.6	5.2	61.4	5.4	67.7	5.7
95	38.6	4.7	43.2	4.9	47.9	5.1	52.9	5.4	58.4	5.6	64.1	5.9
105	35.7	5.0	40.0	5.2	44.5	5.5	49.3	5.7	54.4	6.0	59.7	6.3
KOB075H2		**2Q-6.2Y**										
90	47.6	5.5	53.1	5.7	59.3	6.0	65.7	6.2	72.6	6.5	79.9	6.8
95	45.6	5.6	50.9	5.9	56.4	6.2	62.3	6.5	68.6	6.8	75.3	7.1
105	42.1	5.9	47.2	6.2	52.4	6.5	58.0	6.9	61.9	7.2	70.2	7.6
KOB080H2		**2N-7.2Y**										
90	47.6	5.5	53.1	5.7	59.3	6.0	65.7	6.2	72.6	6.5	79.9	6.8
95	60.7	7.0	67.5	7.4	74.9	7.8	82.7	8.1	91.2	8.4	100.2	8.8
105	56.5	7.4	63.0	7.9	69.9	8.3	77.4	8.7	85.4	9.1	93.8	9.5
KOB090H2		**4V-10.2Y**										
90	70.4	7.5	79.0	7.9	88.4	8.2	98.3	8.6	108.9	8.9	120.2	9.3
95	68.2	7.7	76.3	8.1	85.0	8.5	94.2	8.9	104.1	9.3	114.5	9.7
105	63.2	8.2	70.9	8.6	79.1	9.1	87.9	9.6	97.1	10.1	107.0	10.6
KOB100H2		**4T-12.2Y**										
90	84.5	9.3	94.6	9.7	105.5	10.2	117.0	10.7	129.3	11.2	142.3	11.8
95	81.4	9.5	90.7	10.0	100.7	10.5	111.2	11.8	122.5	11.7	134.3	12.4
105	75.3	9.9	84.2	10.5	93.5	11.2	103.5	11.7	114.1	12.6	125.2	13.4
KOB120H2		**4P-15.2Y**										
90	99.5	11.3	110.8	12.0	123.4	12.7	136.7	13.4	150.9	14.1	166.1	14.8
95	95.4	11.6	106.1	12.4	117.5	13.1	129.7	13.9	142.6	14.7	156.1	15.5
105	88.9	12.2	99.1	13.1	109.8	14.0	121.3	14.8	133.4	15.7	146.2	16.6
KOB150H2		**4N-20.2Y**										
90	118.9	13.9	132.2	14.7	146.6	15.6	161.7	16.5	177.9	17.4	195.1	18.3
95	113.1	14.3	125.2	15.2	138.1	16.2	151.7	17.1	166.1	18.1	181.3	19.2
105	105.5	15.1	116.9	16.1	129.1	17.2	141.9	18.3	155.5	19.4	170.0	20.5

SPECIFICATIONS

		208/1/60				208-240/3/60								EST. SHIP	DIMEN-
UNIT MODEL	COMP MODEL	COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	CONNECTIONS (IN) LIQ. OD	SUCT. OD	RECEIVER (Lbs) DIA X HEIGHT	CAP.†	WEIGHT (Lbs)	SIONS P. 20 & 21
KOB030H2	2EL-3.2Y	—	—	—	—	15.2	4.7	23.7	30	1/2	1-1/8	6X23	19.7	518	(C)
KOB050H2	2Q-4.2Y	—	—	—	—	19.5	4.7	29.1	35	1/2	1-1/8	6X23	19.7	524	(C)
KOB051H2	2U-5.2Y	—	—	—	—	26.4	4.7	37.7	50	1/2	1-1/8	6X30	25.3	558	(C)
KOB075H2	2Q-6.2Y	—	—	—	—	29.6	4.7	41.7	50	5/8	1-3/8	6X30	25.3	679	(C)
KOB080H2	2N-7.2Y	—	—	—	—	31.0	4.7	48.2	60	5/8	1-3/8	8-5/8X32	55.0	716	(C)
KOB090H2	4V-10.2Y	—	—	—	—	42.8	9.4	62.9	80	5/8	1-3/8	8-5/8X32	55.0	1020	(D)
KOB100H2	4T-12.2Y	—	—	—	—	47.1	9.4	68.3	90	5/8	1-5/8	10-3/4X28	72.0	1056	(D)
KOB120H2	4P-15.2Y	—	—	—	—	54.0	9.4	76.9	100	7/8	2-1/8	14X24	101.0	1214	(D)
KOB150H2	4N-20.2Y	—	—	—	—	64.0	9.4	89.4	110	7/8	2-1/8	14X24	101.0	1234	(D)

		480/3/60				600/3/60								EST. SHIP	DIMEN-
UNIT MODEL	COMP MODEL	COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	CONNECTIONS (IN) LIQ. OD	SUCT. OD	RECEIVER (Lbs) DIA X HEIGHT	CAP.†	WEIGHT (Lbs)	SIONS P. 20 & 21
KOB030H2	2EL-3.2Y	7.5	2.2	11.6	15	6.0	1.2	8.7	15	1/2	1-1/8	6X23	19.7	518	(C)
KOB050H2	2Q-4.2Y	9.6	2.2	14.2	15	7.7	1.2	10.8	15	1/2	1-1/8	6X23	19.7	524	(C)
KOB051H2	2U-5.2Y	13.0	2.2	18.5	20	10.4	1.2	14.2	15	1/2	1-1/8	6X30	25.3	558	(C)
KOB075H2	2Q-6.2Y	14.8	2.2	20.7	25	11.8	1.2	16.0	20	5/8	1-3/8	6X30	25.3	679	(C)
KOB080H2	2N-7.2Y	15.5	2.2	23.8	30	19.1	1.2	25.1	30	5/8	1-3/8	8-5/8X32	55.0	716	(C)
KOB090H2	4V-10.2Y	21.4	4.4	31.2	40	17.1	2.4	23.8	30	5/8	1-3/8	8-5/8X32	55.0	1020	(D)
KOB100H2	4T-12.2Y	23.5	4.4	33.8	45	18.8	2.4	25.9	35	5/8	1-5/8	10-3/4X28	72.0	1056	(D)
KOB120H2	4P-15.2Y	27.0	4.4	38.2	50	21.6	2.4	39.4	40	7/8	2-1/8	14X24	101.0	1214	(D)
KOB150H2	4N-20.2Y	32.0	4.4	44.4	60	26.2	2.4	35.2	45	7/8	2-1/8	14X24	101.0	1234	(D)

† Receiver capacity based on 80 % full.

* Minimum circuit amps and minimum circuit breaker sizes are based on air defrost system. If electric defrost is utilized, evaporator fan amps must be added to both values.

KOB Series Air-Cooled Condensing Units

PERFORMANCE DATA with Bitzer Compressors / Medium Temperature R-404A

UNIT MODEL	COMP MODEL	AMB °F	0°F SST MBH	0°F SST kW	5°F SST MBH	5°F SST kW	10°F SST MBH	10°F SST kW	15°F SST MBH	15°F SST kW	20°F SST MBH	20°F SST kW	25°F SST MBH	25°F SST kW	30°F SST MBH	30°F SST kW	35°F SST MBH	35°F SST kW
KOB030M4	2EL-3.2Y	90	18.0	2.8	20.3	3.0	22.6	3.2	25.1	3.3	27.8	3.5	30.6	3.7	33.5	3.9	36.7	4.1
		95	17.4	2.8	19.5	3.0	21.6	3.2	24.0	3.4	26.4	3.6	29.0	3.8	31.7	4.0	34.6	4.2
		105	15.5	2.9	17.4	3.1	19.4	3.4	21.5	3.6	23.9	3.8	26.0	4.0	28.5	4.2	31.0	4.4
KOB050M4	2Q-4.2Y	90	34.1	5.4	37.9	5.8	41.8	6.2	45.9	6.7	50.2	7.1	54.7	7.6	59.3	8.1	64.0	8.7
		95	23.6	4.1	26.5	4.4	29.3	4.7	32.2	5.1	35.4	5.3	38.7	5.7	41.9	6.0	45.4	6.3
		105	21.1	4.2	23.6	4.6	26.1	4.9	28.8	5.3	31.5	5.6	34.4	5.9	37.3	6.3	40.3	6.6
KOB051M4	2U-5.2Y	90	30.2	4.3	34.1	4.6	37.9	4.8	42.0	5.0	46.3	5.3	50.9	5.6	55.7	5.8	60.8	8.1
		95	28.8	4.4	32.1	4.7	35.6	5.0	39.4	5.3	43.4	5.6	47.4	5.7	51.7	6.0	56.2	6.3
		105	25.8	4.6	28.9	5.0	31.9	5.3	35.3	5.7	38.9	5.7	42.5	6.0	46.3	6.3	50.3	6.7
KOB075M4	2Q-6.2Y	90	36.3	5.2	40.8	5.5	45.3	5.8	50.1	6.1	55.2	6.4	60.5	6.7	66.2	7.1	72.1	7.4
		95	34.4	5.4	38.3	5.7	42.3	6.1	46.6	6.5	51.3	6.6	56.1	6.9	61.0	7.3	66.2	7.6
		105	31.0	5.6	34.2	6.0	37.8	6.4	41.7	6.9	45.9	6.9	50.1	7.3	54.5	7.7	59.0	8.1
KOB088M4	2N-7.2Y	90	44.3	6.7	49.5	7.1	54.8	7.6	60.3	8.0	65.8	8.4	71.8	8.9	78.0	9.3	84.4	9.8
		95	41.4	6.9	45.9	7.4	50.6	7.8	55.5	8.3	60.6	8.7	65.8	9.1	71.2	9.6	76.6	10.1
		105	36.9	7.2	40.8	7.7	45.0	8.3	49.2	8.8	53.8	9.1	58.2	9.6	—	—	—	—
KOB090M4	4V-10.2Y	90	53.9	7.3	60.7	7.8	67.9	8.2	75.3	8.6	83.1	9.1	91.5	9.5	100.3	9.9	109.6	10.3
		95	51.5	7.5	57.5	8.0	64.0	8.5	70.8	9.0	77.9	9.3	85.7	9.7	93.6	10.2	101.9	10.6
		105	46.1	7.8	51.6	8.4	57.3	9.0	63.4	9.6	70.0	9.3	76.8	9.8	83.8	10.3	91.2	10.8
KOB100M4	4T-12.2Y	90	65.5	9.1	73.6	9.7	81.6	10.2	90.2	10.8	99.2	11.3	108.8	11.9	118.8	12.5	128.6	13.0
		95	61.8	9.4	68.7	10.0	76.1	10.6	83.8	11.3	91.9	12.0	100.6	12.2	109.4	12.8	118.6	13.4
		105	55.3	9.8	61.5	10.5	68.1	11.2	75.0	12.0	82.4	12.3	90.0	13.0	97.7	13.6	105.8	14.3
KOB120M4	4P-15.2Y	90	76.7	10.8	86.4	11.5	96.0	12.2	106.3	12.9	117.1	13.7	128.5	14.4	140.4	15.1	152.2	15.8
		95	72.7	11.2	81.0	12.0	89.8	12.8	98.9	13.6	108.7	14.0	118.8	14.8	129.2	15.6	140.0	16.3
		105	65.2	11.7	72.6	12.6	80.4	13.5	88.5	14.5	97.4	14.9	106.3	15.8	115.5	16.6	124.8	17.4
KOB150M4	4N-20.2Y	90	88.3	12.9	98.9	13.7	109.5	14.5	120.6	15.4	131.5	16.2	143.6	17.0	156.1	17.9	169.0	18.7
		95	83.1	13.3	92.1	14.2	101.5	15.2	111.2	16.2	121.6	16.6	132.1	17.5	142.9	18.4	153.9	19.3
		105	74.1	13.8	82.0	14.9	90.3	15.9	98.8	17.0	107.9	17.5	117.1	18.5	—	—	—	—

SPECIFICATIONS

UNIT MODEL	COMP MODEL	240/1/60 COMP RLA	240/1/60 COND FLA	240/1/60 MIN* AMPS	240/1/60 MIN* BREAKER	208-240/3/60 COMP RLA	208-240/3/60 COND FLA	208-240/3/60 MIN* AMPS	208-240/3/60 MIN* BREAKER	CONNECTIONS (IN) LIQ. OD	CONNECTIONS (IN) SUCT. OD	RECEIVER (Lbs) DIA X HEIGHT	RECEIVER (Lbs) CAP.†	EST. SHIP WEIGHT (Lbs)	DIMENSIONS P. 20 & 21
KOB030M4	2EL-3.2Y	—	—	—	—	15.2	4.7	23.7	30	1/2	1-1/8	6X23	17.5	518	(C)
KOB050M4	2Q-4.2Y	—	—	—	—	19.5	4.7	29.1	35	1/2	1-1/8	6X23	17.5	524	(C)
KOB051M4	2U-5.2Y	—	—	—	—	26.4	4.7	37.7	50	1/2	1-1/8	6X30	22.5	558	(C)
KOB075M4	2Q-6.2Y	—	—	—	—	29.6	4.7	41.7	50	5/8	1-3/8	6X30	22.5	678	(C)
KOB088M4	2N-7.2Y	—	—	—	—	47.8	4.7	43.5	50	5/8	1-3/8	8-5/8X32	49.0	716	(C)
KOB090M4	4V-10.2Y	—	—	—	—	42.8	9.4	62.9	80	5/8	1-3/8	8-5/8X32	49.0	1020	(D)
KOB100M4	4T-12.2Y	—	—	—	—	47.1	9.4	68.3	90	5/8	1-5/8	10-3/4X28	64.1	1056	(D)
KOB120M4	4P-15.2Y	—	—	—	—	54.0	9.4	76.9	100	7/8	2-1/8	14X24	89.9	1214	(D)
KOB150M4	4N-20.2Y	—	—	—	—	64.0	9.4	89.4	110	7/8	2-1/8	14X24	89.9	1234	(D)

UNIT MODEL	COMP MODEL	460/3/60 COMP RLA	460/3/60 COND FLA	460/3/60 MIN* AMPS	460/3/60 MIN* BREAKER	600/3/60 COMP RLA	600/3/60 COND FLA	600/3/60 MIN* AMPS	600/3/60 MIN* BREAKER	CONNECTIONS (IN) LIQ. OD	CONNECTIONS (IN) SUCT. OD	RECEIVER (Lbs) DIA X HEIGHT	RECEIVER (Lbs) CAP.†	EST. SHIP WEIGHT (Lbs)	DIMENSIONS P. 20 & 21
KOB030M4	2EL-3.2Y	7.5	2.2	11.6	15	6.0	1.2	8.7	15	1/2	1-1/8	6X23	17.5	518	(C)
KOB050M4	2Q-4.2Y	9.6	2.2	14.2	15	7.7	1.2	10.8	15	1/2	1-1/8	6X23	17.5	524	(C)
KOB051M4	2U-5.2Y	13.0	2.2	18.5	20	10.4	1.2	14.2	15	1/2	1-1/8	6X30	22.5	558	(C)
KOB075M4	2Q-6.2Y	14.8	2.2	20.7	25	11.8	1.2	16.0	20	5/8	1-3/8	8-5/8X32	49.0	678	(C)
KOB088M4	2N-7.2Y	23.9	2.2	21.6	25	19.1	1.2	25.1	30	5/8	1-3/8	8-5/8X32	49.0	716	(C)
KOB090M4	4V-10.2Y	21.4	4.4	31.2	40	17.1	2.4	23.8	30	5/8	1-3/8	8-5/8X32	49.0	1020	(D)
KOB100M4	4T-12.2Y	23.5	4.4	33.8	45	18.8	2.4	25.9	35	5/8	1-5/8	10-3/4X28	64.1	1056	(D)
KOB120M4	4P-15.2Y	27.0	4.4	38.2	50	21.6	2.4	29.4	40	7/8	2-1/8	14X24	89.9	1214	(D)
KOB150M4	4N-20.2Y	32.0	4.4	44.4	60	26.2	2.4	35.2	45	7/8	2-1/8	14X24	89.9	1234	(D)

† Receiver capacity based on 80% full.

*Minimum circuit amps and minimum circuit breaker sizes are based on air defrost system. If electric defrost is utilized, evaporator fan amps must be added to both values.

NOTE: May also be used with R-507. For capacity, multiply by 1.03; kW X 1.02

KOB Series Air-Cooled Condensing Units

PERFORMANCE DATA with Bitzer Compressors / Low Temperature R-22

KOB MODEL	COMP MODEL	-40°F SST		-35°F SST		-30°F SST		-25°F SST		-20°F SST		-15°F SST		-10°F SST		-5°F SST	
AMB °F		MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
KOB030L2	2U-3.2Y																
90		6.5	2.2	8.4	2.4	10.4	2.6	12.6	2.9	15.0	3.1	17.7	3.3	20.5	3.6	23.6	3.8
95		8.0	2.2	9.5	2.4	11.2	2.7	13.1	2.9	15.2	3.2	17.4	3.4	19.4	3.6	22.7	3.9
105		7.3	2.2	8.7	2.5	10.2	2.7	12.0	3.0	13.9	3.3	16.0	3.8	18.4	3.8	20.9	4.1
KOB040L2	2Q-4.2Y																
90		7.7	2.6	9.8	2.9	12.2	3.2	14.8	3.4	17.6	3.7	20.7	4.0	24	4.3	27.6	4.6
95		9.4	2.6	11.2	2.9	13.2	3.2	15.3	3.5	17.7	3.8	20.4	4.1	23.2	4.4	26.4	4.7
105		8.6	2.7	10.2	3.0	12.0	3.3	14.0	3.6	16.3	3.9	18.7	4.2	21.4	4.6	24.3	4.9
KOB050L2	2N-5.2Y																
90		12.5	3.3	15.1	3.7	17.9	4.0	21.2	4.4	24.6	4.7	28.4	5.1	32.5	5.4	36.9	5.8
95		13.1	3.4	15.5	3.7	18.2	4.1	21.2	4.4	25.1	4.8	28.8	5.2	31.8	5.6	36.0	6.0
105		12.0	3.4	14.0	3.8	17.1	4.2	20.5	4.6	23.2	5.0	26.8	5.4	29.5	5.8	33.4	6.2
KOB060L2	4V-6.2Y																
90		11.5	2.9	14.6	3.5	17.9	4.0	21.6	4.5	25.7	5.0	30.1	5.4	35.2	5.9	40.5	6.4
95		11.2	3.3	14.0	3.7	17.1	4.2	20.5	4.6	24.2	5.1	28.2	5.6	32.5	6.0	37.1	6.5
105		9.8	3.3	12.5	3.7	15.4	4.2	18.6	4.7	22.1	5.2	25.6	5.7	29.8	6.2	34.0	6.7
KOB080L2	4T-8.2Y																
90		13.7	3.3	17.5	4.0	21.6	4.7	26.1	5.3	31.0	5.9	36.3	6.5	42.1	7.1	48.4	7.6
95		13.3	3.9	17.9	4.4	20.7	5.0	24.9	5.5	29.4	6.0	34.2	6.6	39.3	7.1	44.8	7.7
105		11.5	3.9	14.9	4.4	18.5	5.0	22.4	5.5	26.6	6.1	31.1	6.6	35.9	7.2	41.0	7.8
KOB090L2	4P-10.2Y																
90		18.6	3.6	23.1	4.3	28.0	5.0	33.4	5.6	39.2	6.3	45.7	7.1	53	7.8	60.7	8.5
95		16.7	4.6	21.1	5.1	25.9	5.6	31.1	6.1	36.8	6.7	43.0	7.3	49.7	8.0	56.9	8.6
105		14.6	4.6	18.7	5.1	23.3	5.7	28.2	6.2	33.6	6.9	39.5	7.5	45.8	8.2	52.6	9.0
KOB100L2	4N-12.2Y																
90		25.2	4.9	30.4	5.6	36.1	6.3	42.4	7.1	49.6	7.9	57.1	8.7	65.3	9.6	74.2	10.5
95		20.6	5.6	26.0	6.2	31.8	6.8	38.2	7.5	45.0	8.3	52.4	9.0	60.3	9.8	68.9	10.7
105		18.0	5.6	23.1	6.2	28.7	7.0	34.7	7.7	41.2	8.5	48.2	9.3	55.8	10.2	63.9	11.1
KOB150L2	4H-15.2Y																
90		29.0	6.0	36.0	7.0	43.7	8.1	52.5	9.2	61.7	10.4	71.6	11.5	82.4	12.7	94.0	13.9
95		26.1	7.1	32.7	8.0	40.0	9.0	47.9	10.0	56.4	11.0	65.7	12.0	75.7	13.1	86.2	14.2
105		22.7	7.1	28.9	8.1	35.8	9.2	43.3	10.3	51.4	11.4	60.2	12.5	69.7	13.7	79.9	15.0
KOB200L2	4G-20.2Y																
90		34.6	7.2	42.6	8.5	51.4	9.8	60.8	11.1	70.9	12.5	82.0	13.8	94.0	15.2	106.9	16.6
95		29.9	8.6	37.5	9.7	45.7	10.9	54.5	12.1	64.1	13.3	74.5	14.6	85.6	15.9	97.5	17.2
105		26.1	8.6	33.2	9.9	41.0	11.2	49.4	12.5	58.5	13.9	68.4	15.4	78.9	16.8	90.2	18.3

SPECIFICATIONS

UNIT MODEL	240/1/60 COMP MODEL	COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	208-240/3/60 COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	CONNECTIONS (IN) LIQ. OD	SUCT. OD	RECEIVER (Lbs) DIA X HEIGHT	CAP.†	EST. SHIP WEIGHT (Lbs)	DIMENSIONS P. 20 & 21
KOB030L2	2U-3.2Y	—	—	—	—	16.8	4.7	25.7	30	1/2	1-1/8	6X23	19.7	490	(C)
KOB040L2	2Q-4.2Y	—	—	—	—	19.5	4.7	29.1	35	1/2	1-1/8	6X23	19.7	524	(C)
KOB050L2	2N-5.2Y	—	—	—	—	24.8	4.7	35.7	45	1/2	1-1/8	6X30	25.3	559	(C)
KOB060L2	4V-6.2Y	—	—	—	—	26.0	4.7	37.2	50	5/8	1-3/8	8-5/8X32	55.0	617	(C)
KOB080L2	4T-8.2Y	—	—	—	—	31.0	4.7	43.5	50	5/8	1-3/8	8-5/8X32	55.0	621	(C)
KOB090L2	4P-10.2Y	—	—	—	—	38.0	9.4	56.9	70	5/8	1-3/8	8-5/8X32	55.0	1013	(D)
KOB100L2	4N-12.2Y	—	—	—	—	44.2	9.4	64.7	80	7/8	1-3/8	10-3/4X28	72.0	1055	(D)
KOB150L2	4H-15.2Y	—	—	—	—	51.4	9.4	73.7	90	7/8	1-3/8	10-3/4X28	72.0	1113	(D)
KOB200L2	4G-20.2Y	—	—	—	—	64.0	9.4	89.4	110	7/8	1-5/8	14X24	101.0	1143	(D)

UNIT MODEL	480/3/60 COMP MODEL	COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	600/3/60 COMP RLA	COND FLA	MIN* AMPS	MIN* BREAKER	CONNECTIONS (IN) LIQ. OD	SUCT. OD	RECEIVER (Lbs) DIA X HEIGHT	CAP.†	EST. SHIP WEIGHT (Lbs)	DIMENSIONS P. 20 & 21
KOB030L2	2U-3.2Y	8.3	2.2	12.6	15	6.6	1.2	9.5	15	1/2	1-1/8	6X23	19.7	490	(C)
KOB040L2	2Q-4.2Y	9.6	2.2	14.2	15	7.7	1.2	10.8	15	1/2	1-1/8	6X23	19.7	524	(C)
KOB050L2	2N-5.2Y	12.4	2.2	17.7	20	9.9	1.2	13.6	15	1/2	1-1/8	6X30	25.3	559	(C)
KOB060L2	4V-6.2Y	13.0	2.2	18.5	20	10.4	1.2	14.2	15	5/8	1-3/8	8-5/8X32	55.0	617	(C)
KOB080L2	4T-8.2Y	15.5	2.2	21.6	25	12.4	1.2	16.7	20	5/8	1-3/8	8-5/8X32	55.0	621	(C)
KOB090L2	4P-10.2Y	19.0	4.4	28.2	35	15.2	2.4	21.4	25	5/8	1-3/8	8-5/8X32	55.0	1013	(D)
KOB100L2	4N-12.2Y	22.1	4.4	32.0	40	17.7	2.4	24.5	30	7/8	1-3/8	10-3/4X28	72.0	1055	(D)
KOB150L2	4H-15.2Y	25.7	4.4	36.5	45	20.5	2.4	28.0	35	7/8	1-3/8	10-3/4X28	72.0	1113	(D)
KOB200L2	4G-20.2Y	32.0	4.4	44.4	60	25.5	2.4	34.3	45	7/8	1-5/8	14X24	101.0	1143	(D)

† Receiver capacity based on 80 % full.

* Minimum circuit amps and minimum circuit breaker sizes are based on air defrost system. If electric defrost is utilized, evaporator fan amps must be added to both values.

KOB Series Air-Cooled Condensing Units

PERFORMANCE DATA with Bitzer Compressors / Low Temperature R-404A

AMB	-40°F SST		-35°F SST		-30°F SST		-25°F SST		-20°F SST		-15°F SST		-10°F SST		-5°F SST		0°F SST	
°F	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
KOB030L4		**2U-3.2Y**																
90	9.3	2.3	11.2	2.5	13.2	2.8	15.4	3.1	17.8	3.3	20.3	3.6	23.1	3.9	26.0	4.1	29.1	4.4
95	8.7	2.3	10.5	2.5	12.4	2.8	14.4	3.1	16.6	3.4	19.0	3.6	21.5	3.9	24.2	4.2	27.0	4.5
105	7.5	2.2	9.1	2.5	10.8	2.8	12.7	3.1	14.7	3.4	16.8	3.7	19.1	4.1	21.5	4.4	24.1	4.7
KOB040L4		**2Q-4.2Y**																
90	11.1	2.8	13.3	3.1	15.7	3.4	18.3	3.7	21.0	4.0	24.0	4.4	27.1	4.7	30.5	5.1	34.1	5.4
95	10.4	2.7	12.4	3.1	14.6	3.4	17.0	3.7	19.5	4.1	22.2	4.4	25.1	4.8	28.1	5.2	31.2	5.5
105	8.9	2.7	10.7	3.0	12.7	3.4	14.9	3.8	17.2	4.1	19.6	4.5	22.2	4.9	24.9	5.3	27.7	5.7
KOB050L4		**2N-5.2Y**																
90	14.5	3.4	17.2	3.8	20.2	4.2	23.5	4.6	26.9	5.0	30.7	5.5	34.7	5.9	39.0	6.3	43.5	6.8
95	13.5	3.4	16.0	3.8	18.8	4.2	21.7	4.7	24.9	5.1	28.3	5.6	31.9	6.0	35.7	6.5	39.8	6.9
105	11.7	3.4	14.0	3.8	16.5	4.3	19.2	4.8	22.1	5.3	25.1	5.8	28.4	6.2	31.8	6.8	35.3	7.3
KOB060L4		**4V-6.2Y**																
90	16.2	3.8	19.5	4.2	23.0	4.7	26.7	5.1	30.8	5.6	35.2	6.1	39.8	6.6	44.8	7.1	50.1	7.7
95	14.8	3.7	17.7	4.2	20.9	4.7	24.3	5.2	27.9	5.7	31.7	6.2	35.8	6.7	40.1	7.3	44.5	7.9
105	12.6	3.7	15.3	4.2	18.1	4.7	21.2	5.2	24.5	5.8	28.0	6.3	31.6	6.9	35.5	7.5	39.4	8.1
KOB080L4		**4T-8.2Y**																
90	20.2	4.8	24.1	5.3	28.2	5.9	32.6	6.5	37.3	7.1	42.3	7.7	47.7	8.3	53.4	9.0	59.3	9.6
95	18.6	4.8	22.1	5.3	25.8	5.9	29.8	6.5	34.1	7.2	38.6	7.8	43.6	8.4	48.3	9.1	53.5	9.8
105	15.9	4.7	19.1	5.3	22.5	6.0	26.1	6.6	30.0	7.3	34.1	7.9	38.3	8.6	42.7	9.4	47.3	10.1
KOB090L4		**4P-10.2Y**																
90	24.2	5.3	29.0	6.0	34.2	6.7	39.9	7.4	46.1	8.1	52.8	8.8	59.9	9.5	68.0	10.3	76.3	11.0
95	22.5	5.2	27.0	6.0	31.9	6.7	37.2	7.4	42.9	8.2	49.0	8.9	55.6	9.7	62.6	10.5	70.0	11.3
105	19.4	5.1	23.5	5.9	28.0	6.7	32.8	7.5	38.1	8.3	43.6	9.2	49.6	10.0	55.9	10.9	62.6	11.8
KOB100L4		**4N-12.2Y**																
90	29.1	6.4	34.6	7.2	40.6	8.0	47.0	8.9	54.0	9.7	61.5	10.5	69.5	11.4	78.0	12.3	87.1	13.2
95	27.1	6.4	32.2	7.2	37.7	8.1	43.6	8.9	50.0	9.8	56.8	10.7	64.0	11.6	71.7	12.5	79.7	13.4
105	23.6	6.3	28.2	7.2	33.2	8.1	38.6	9.1	44.4	10.0	50.5	11.0	57.0	11.9	63.8	12.9	70.9	13.9
KOB150L4		**4H-15.2Y**																
90	39.4	8.6	46.8	9.7	54.4	10.8	62.8	11.9	71.4	13.0	80.7	14.2	90.7	15.3	101.2	16.5	112.3	17.8
95	36.7	8.6	43.2	9.7	50.2	10.9	57.7	12.0	65.6	13.2	74.0	14.4	82.9	15.6	92.2	16.8	101.9	18.1
105	32.0	8.6	37.9	9.8	44.2	11.0	51.0	12.3	58.1	13.6	65.7	14.9	73.6	16.1	81.9	17.5	90.5	18.9
KOB200L4		**4G-20.2Y**																
90	45.3	10.2	53.5	11.5	62.0	12.8	71.1	14.1	80.8	15.4	91.1	16.8	102.0	18.1	113.5	19.6	125.5	21.0
95	42.1	10.2	49.3	11.5	57.0	12.9	65.2	14.2	73.9	15.6	83.0	17.0	92.6	18.4	102.6	19.9	112.9	21.4
105	36.7	10.2	43.2	11.6	50.2	13.0	57.6	14.5	65.3	16.0	73.5	17.5	82.0	19.0	90.8	20.6	99.8	22.2

SPECIFICATIONS

		240/1/60				208-240/3/60								EST. SHIP	DIMEN-
	COMP	COMP	COND	MIN*	MIN*	COMP	COND	MIN*	MIN*	CONNECTIONS (IN)		RECEIVER (Lbs)		WEIGHT	SIONS
UNIT MODEL	MODEL	RLA	FLA	AMPS	BREAKER	RLA	FLA	AMPS	BREAKER	LIQ. OD	SUCT. OD	DIA X HEIGHT	CAP.†	(Lbs)	P. 20 & 21
KOB030L4	2U-3.2Y	—	—	—	—	16.8	4.7	25.7	30	1/2	1-1/8	6X23	17.5	490	(C)
KOB040L4	2Q-4.2Y	—	—	—	—	19.5	4.7	29.1	35	1/2	1-1/8	6X23	17.5	524	(C)
KOB050L4	2N-5.2Y	—	—	—	—	24.8	4.7	35.7	45	1/2	1-1/8	6X30	22.5	559	(C)
KOB060L4	4V-6.2Y	—	—	—	—	26.0	4.7	37.2	50	5/8	1-3/8	8-5/8X32	49.0	617	(C)
KOB080L4	4T-8.2Y	—	—	—	—	31.0	9.4	46.2	50	5/8	1-3/8	8-5/8X32	49.0	909	(D)
KOB090L4	4P-10.2Y	—	—	—	—	38.0	9.4	56.9	70	5/8	1-3/8	8-5/8X32	49.0	1013	(D)
KOB100L4	4N-12.2Y	—	—	—	—	44.2	9.4	64.7	80	7/8	1-3/8	10-3/4X28	64.1	1055	(D)
KOB150L4	4H-15.2Y	—	—	—	—	51.4	9.4	73.7	90	7/8	1-3/8	10-3/4X28	64.1	1113	(D)
KOB200L4	4G-20.2Y	—	—	—	—	64.0	9.4	89.4	110	7/8	1-5/8	14X24	89.9	1143	(D)

		480/3/60				600/3/60								EST. SHIP	DIMEN-
	COMP	COMP	COND	MIN*	MIN*	COMP	COND	MIN*	MIN*	CONNECTIONS (IN)		RECEIVER (Lbs)		WEIGHT	SIONS
UNIT MODEL	MODEL	RLA	FLA	AMPS	BREAKER	RLA	FLA	AMPS	BREAKER	LIQ. OD	SUCT. OD	DIA X HEIGHT	CAP.†	(Lbs)	P. 20 & 21
KOB030L4	2U-3.2Y	8.3	2.2	12.6	15	6.6	1.2	9.5	15	1/2	1-1/8	6X23	17.5	490	(C)
KOB040L4	2Q-4.2Y	9.6	2.2	14.2	15	7.7	1.2	10.8	15	1/2	1-1/8	6X23	17.5	524	(C)
KOB050L4	2N-5.2Y	12.4	2.2	17.7	20	9.9	1.2	13.6	15	1/2	1-1/8	6X30	22.5	559	(C)
KOB060L4	4V-6.2Y	13.0	2.2	18.5	20	10.4	1.2	14.2	15	5/8	1-3/8	8-5/8X32	49.0	617	(C)
KOB080L4	4T-8.2Y	15.5	4.4	21.6	25	12.4	2.4	17.9	20	5/8	1-3/8	8-5/8X32	49.0	909	(D)
KOB090L4	4P-10.2Y	19.0	4.4	26.2	35	15.2	2.4	21.4	25	5/8	1-3/8	8-5/8X32	49.0	1013	(D)
KOB100L4	4N-12.2Y	22.1	4.4	32.0	40	17.7	2.4	24.5	30	7/8	1-3/8	10-3/4X28	64.1	1055	(D)
KOB150L4	4H-15.2Y	25.7	4.4	36.5	45	20.5	2.4	28.0	35	7/8	1-3/8	10-3/4X28	64.1	1113	(D)
KOB200L4	4G-20.2Y	32.0	4.4	44.4	60	25.5	2.4	34.3	45	7/8	1-5/8	14X24	89.9	1143	(D)

† Receiver capacity based on 80% full.

* Minimum circuit amps and minimum circuit breaker sizes are based on air defrost system. If electric defrost is utilized, evaporator fan amps must be added to both values.

NOTE: May also be used with R-507. For capacity, multiply by 1.03; kW X 1.02

KOZ Series Air-Cooled Condensing Units

NEW EXTENDED LINE

PERFORMANCE DATA with Copeland Scroll / Medium Temperature R-404A
For R-22 multiply capacity by 0.95

AMB	0°F SST		5°F SST		10°F SST		15°F SST		20°F SST		25°F SST		30°F SST		35°F SST	
°F	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
KOZ021M4		**ZS15K4E**														
90	12.1	1.9	13.4	1.9	14.7	2.0	16.1	2.1	17.6	2.2	19.2	2.3	20.9	2.4	22.6	2.5
95	11.6	1.9	12.8	2.0	14.1	2.1	15.4	2.2	16.8	2.3	18.3	2.3	19.9	2.4	21.6	2.5
105	10.6	2.1	11.7	2.2	12.8	2.3	14.0	2.3	15.3	2.4	16.6	2.5	18.0	2.6	19.5	2.7
KOZ026M4		**ZS19K4E**														
90	14.6	2.3	16.1	2.3	17.7	2.4	19.3	2.6	21.1	2.7	22.9	2.8	24.8	2.9	26.8	3.0
95	14.0	2.3	15.4	2.4	16.9	2.5	18.5	2.7	20.1	2.8	21.8	2.9	23.6	3.0	25.5	3.1
105	12.7	2.5	14.0	2.6	15.3	2.8	16.7	2.9	18.2	3.0	19.7	3.1	21.3	3.2	22.9	3.3
KOZ031M4		**ZS21K4E**														
90	17.1	2.2	18.9	2.3	20.8	2.4	22.9	2.5	25.2	2.6	27.5	2.7	30.0	2.8	32.7	2.9
95	16.4	2.3	18.1	2.4	20.0	2.5	22.0	2.5	24.1	2.6	26.4	2.7	28.8	2.9	31.3	3.0
105	15.0	2.5	16.6	2.6	18.3	2.7	20.1	2.8	22.0	2.9	24.1	3.0	26.2	3.1	28.5	3.2
KOZ036M4		**ZS26K4E**														
90	20.9	2.7	23.1	2.8	25.4	3.0	28.0	3.1	30.6	3.2	33.5	3.4	36.4	3.5	39.6	3.7
95	20.0	2.8	22.1	3.0	24.4	3.1	26.8	3.2	29.4	3.3	32.0	3.5	34.9	3.6	37.9	3.8
105	18.3	3.1	20.2	3.2	22.2	3.3	24.4	3.5	26.7	3.6	29.1	3.7	31.7	3.9	34.4	4.0
KOZ041M4		**ZS30K4E**														
90	22.9	3.5	25.4	3.6	28.0	3.7	30.9	3.7	33.8	3.8	36.9	3.9	40.2	4.0	43.6	4.1
95	21.9	3.7	24.2	3.8	26.8	3.8	29.4	3.9	32.2	4.0	35.2	4.1	38.3	4.2	41.4	4.3
105	19.7	4.1	21.8	4.2	24.1	4.3	26.5	4.4	29.0	4.5	31.6	4.5	34.3	4.6	37.1	4.7
KOZ051M4		**ZS38K4E**														
90	29.6	4.0	32.7	4.1	36.0	4.3	39.5	4.5	43.3	4.7	47.2	4.9	51.3	5.1	55.6	5.4
95	28.3	4.1	31.3	4.3	34.5	4.5	37.8	4.7	41.4	4.9	45.1	5.1	49.0	5.3	53.1	5.6
105	25.7	4.6	28.4	4.7	31.2	4.9	34.2	5.1	37.4	5.3	40.8	5.5	44.3	5.7	48.0	6.0
KOZ061M4		**ZS45K4E**														
90	35.4	4.8	39.1	5.0	43.0	5.2	47.1	5.4	51.5	5.6	56.2	5.9	61.1	6.1	66.2	6.4
95	34.1	5.0	37.6	5.2	41.3	5.4	45.2	5.6	49.4	5.8	53.8	6.1	58.4	6.3	63.3	6.6
105	31.2	5.3	34.4	5.6	37.7	5.8	41.2	6.0	45.0	6.3	48.9	6.5	53.0	6.8	57.3	7.1
KOZ076M4		**ZS56K4E**														
90	41.5	6.4	45.8	6.6	50.3	6.9	55.0	7.2	60.0	7.5	65.3	7.8	70.8	8.1	76.6	8.5
95	39.8	6.6	43.9	6.8	48.1	7.1	52.6	7.4	57.4	7.7	62.4	8.0	67.6	8.3	73.0	8.7
105	36.4	6.9	40.0	7.3	43.7	7.6	47.7	7.9	51.9	8.2	56.3	8.5	60.8	8.8	65.6	9.2
KOZ101M4		**ZS75K4E**														
90	60.3	8.7	67.1	9.2	74.2	9.6	81.6	10.1	89.2	10.6	96.8	11.0	104.5	11.6	112.1	12.1
95	57.4	9.0	63.9	9.5	70.8	9.9	77.9	10.4	85.2	10.9	92.7	11.4	100.1	11.9	107.6	12.4
105	51.8	9.7	57.6	10.1	63.7	10.6	70.2	11.1	76.9	11.6	83.8	12.1	90.8	12.6	97.8	13.1
KOZ131M4		**ZS92K4E**														
90	72.4	10.8	79.9	11.3	87.8	11.8	96.1	12.3	104.8	12.8	114.0	13.4	123.5	14.0	133.4	14.6
95	69.5	11.2	76.6	11.7	84.1	12.2	91.9	12.7	100.2	13.3	108.8	13.8	117.8	14.4	127.2	15.0
105	63.5	12.0	69.7	12.5	76.4	13.1	83.3	13.6	90.6	14.2	98.2	14.8	106.2	15.3	114.4	16.0
KOZ151M4		**ZS11M4E**														
90	84.8	13.3	93.3	13.8	102.2	14.4	111.7	14.9	121.6	15.5	131.9	16.2	142.7	16.9	153.9	17.6
95	81.1	13.8	89.2	14.3	97.6	14.9	106.6	15.5	115.9	16.1	125.7	16.7	135.9	17.4	146.5	18.1
105	73.5	14.8	80.6	15.4	88.1	16.0	96.0	16.6	104.3	17.2	113.0	17.9	122.0	18.6	131.4	19.3

SPECIFICATIONS

		240/1/60				208-240/3/60								EST. SHIP	DIMEN-
	COMP	COMP	COND	MIN*	MIN*	COMP	COND	MIN*	MIN*	CONNECTIONS (IN)		RECEIVER (lbs)		WEIGHT	SIONS
UNIT MODEL	MODEL	RLA	FLA	AMPS	BREAKER	RLA	FLA	AMPS	BREAKER	LIQ. OD	SUCT. OD	DIA X HEIGHT	CAP.†	(lbs)	P. 20 & 21
KOZ021M4	ZS15K4E	13.6	6.4	23.4	30	9.3	6.4	18.0	20	1/2	7/8	6X18	12.8	274	(B)
KOZ026M4	ZS19K4E	16.4	6.4	26.9	35	9.7	6.4	18.5	20	1/2	7/8	6X18	12.8	283	(B)
KOZ031M4	ZS21K4E	16.4	4.7	25.2	30	11.1	4.7	18.6	20	1/2	1-1/8	6X24	17.6	498	(C)
KOZ036M4	ZS26K4E	20.7	4.7	30.6	40	13.6	4.7	21.7	25	1/2	1-1/8	6X24	17.6	501	(C)
KOZ041M4	ZS30K4E	26.8	4.7	38.2	50	15.0	4.7	23.5	30	1/2	1-1/8	6X24	17.6	518	(C)
KOZ051M4	ZS38K4E	31.8	4.7	44.5	60	21.4	4.7	31.5	40	1/2	1-1/8	6X30	22.4	548	(C)
KOZ061M4	ZS45K4E	-	-	-	-	23.9	4.7	34.6	45	5/8	1-3/8	8-5/8X32	49.0	607	(C)
KOZ076M4	ZS56K4E	-	-	-	-	30.9	4.7	43.3	50	5/8	1-3/8	8-5/8X32	49.0	737	(C)
KOZ101M4	ZS75K4E	-	-	-	-	44.9	9.4	65.5	80	5/8	1-3/8	103/4X28	64.1	928	(D)
KOZ131M4	ZS92K4E	-	-	-	-	54.4	9.4	77.4	100	7/8	1-5/8	103/4X28	64.1	968	(D)
KOZ151M4	ZS11M4E	-	-	-	-	60.0	9.4	84.4	110	7/8	1-5/8	14X24	89.9	1128	(D)

		480/3/60				600/3/60								EST. SHIP	DIMEN-
	COMP	COMP	COND	MIN*	MIN*	COMP	COND	MIN*	MIN*	CONNECTIONS (IN)		RECEIVER (lbs)		WEIGHT	SIONS
UNIT MODEL	MODEL	RLA	FLA	AMPS	BREAKER	RLA	FLA	AMPS	BREAKER	LIQ. OD	SUCT. OD	DIA X HEIGHT	CAP.†	(lbs)	P. 20 & 21
KOZ021M4	ZS15K4E	-	-	-	-	-	-	-	-	1/2	7/8	6X18	12.8	274	(B)
KOZ026M4	ZS19K4E	-	-	-	-	-	-	-	-	1/2	7/8	6X18	12.8	283	(B)
KOZ031M4	ZS21K4E	5.7	2.2	9.3	10	4.3	1.2	6.6	10	1/2	1-1/8	6X24	17.6	498	(C)
KOZ036M4	ZS26K4E	7.1	2.2	11.1	15	5.0	1.2	7.5	10	1/2	1-1/8	6X24	17.6	501	(C)
KOZ041M4	ZS30K4E	8.2	2.2	12.5	15	6.8	1.2	9.7	15	1/2	1-1/8	6X24	17.6	518	(C)
KOZ051M4	ZS38K4E	9.6	2.2	14.2	15	7.9	1.2	11.1	15	1/2	1-1/8	6X30	22.4	548	(C)
KOZ061M4	ZS45K4E	9.3	2.2	13.8	15	7.9	1.2	11.1	15	5/8	1-3/8	8-5/8X32	49.0	607	(C)
KOZ076M4	ZS56K4E	16.2	2.2	22.5	30	11.8	1.2	16.0	20	5/8	1-3/8	8-5/8X32	49.0	737	(C)
KOZ101M4	ZS75K4E	21.7	4.4	31.5	40	16.6	2.4	23.2	30	5/8	1-3/8	103/4X28	64.1	928	(D)
KOZ131M4	ZS92K4E	25.8	4.4	36.7	45	20.6	2.4	28.2	35	7/8	1-5/8	103/4X28	64.1	968	(D)
KOZ151M4	ZS11M4E	28.2	4.4	39.7	50	22.5	2.4	30.5	40	7/8	1-5/8	14X24	89.9	1128	(D)

† Receiver capacity based on 80% full.
* Minimum circuit amps and minimum circuit breaker sizes are based on air defrost system. If electric defrost is utilized, evaporator fan amps must be added to both values.
NOTE: May also be used with R-507. For capacity, multiply by 1.03; KW X 1.02

KOZ Series Air-Cooled Condensing Units

NEW EXTENDED LINE

PERFORMANCE DATA with Copeland Scroll / Low Temperature R-404A
For R-22 multiply capacity by 0.92

AMB	-40°F SST		-35°F SST		-30°F SST		-25°F SST		-20°F SST		-15°F SST		-10°F SST		-5°F SST		0°F SST	
°F	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
KOZ021L4		**ZF06K4E**																
90	4.8	1.5	5.5	1.5	6.2	1.5	7.0	1.5	7.8	1.6	8.7	1.6	9.7	1.7	10.7	1.8	11.8	1.8
95	4.5	1.6	5.2	1.6	6.0	1.6	6.7	1.6	7.5	1.7	8.4	1.7	9.3	1.8	10.3	1.8	11.3	1.9
105	4.2	1.8	4.8	1.8	5.5	1.8	6.2	1.8	6.9	1.8	7.7	1.9	8.5	1.9	9.4	2.0	10.4	2.1
KOZ026L4		**ZF08K4E**																
90	6.1	1.8	6.9	1.9	7.8	1.9	8.7	2.0	9.8	2.0	10.9	2.1	12.1	2.2	13.4	2.3	14.7	2.3
95	5.8	1.9	6.6	2.0	7.5	2.0	8.4	2.1	9.4	2.1	10.4	2.2	11.6	2.3	12.8	2.4	14.1	2.4
105	5.3	2.2	6.0	2.2	6.8	2.3	7.7	2.3	8.6	2.4	9.5	2.4	10.5	2.5	11.6	2.6	12.8	2.7
KOZ031L4		**ZF09K4E**																
90	6.8	1.9	7.7	1.9	8.7	2.0	9.7	2.0	10.9	2.1	12.1	2.2	13.4	2.3	14.9	2.4	16.4	2.5
95	6.5	2.0	7.4	2.0	8.3	2.1	9.4	2.2	10.5	2.2	11.6	2.3	12.9	2.4	14.2	2.5	15.6	2.6
105	5.9	2.2	6.8	2.3	7.6	2.3	8.5	2.4	9.5	2.5	10.6	2.5	11.7	2.6	12.9	2.7	14.2	2.8
KOZ036L4		**ZF11K4E**																
90	8.2	2.2	9.3	2.3	10.6	2.4	11.9	2.5	13.4	2.6	15.0	2.7	16.8	2.7	18.7	2.8	20.7	2.9
95	7.9	2.3	9.0	2.4	10.2	2.5	11.5	2.6	12.9	2.7	14.4	2.8	16.1	2.9	17.9	3.0	19.8	3.1
105	7.2	2.5	8.2	2.6	9.3	2.7	10.5	2.8	11.8	2.9	13.2	3.0	14.7	3.1	16.3	3.2	18.1	3.3
KOZ041L4		**ZF13K4E**																
90	9.4	2.6	10.9	2.7	12.5	2.8	14.2	2.9	16.0	3.0	18.0	3.1	20.1	3.2	22.3	3.3	24.7	3.4
95	8.9	2.7	10.3	2.8	11.9	2.9	13.5	3.0	15.2	3.1	17.1	3.2	19.1	3.3	21.2	3.4	23.5	3.5
105	8.2	3.0	9.4	3.1	10.7	3.2	12.1	3.3	13.7	3.4	15.3	3.5	17.1	3.6	19.0	3.7	21.1	3.9
KOZ051L4		**ZF15K4E**																
90	11.5	3.2	13.1	3.4	14.9	3.5	16.8	3.6	18.9	3.7	21.2	3.8	23.7	4.0	26.4	4.1	29.3	4.2
95	11.1	3.4	12.6	3.5	14.3	3.6	16.2	3.8	18.2	3.9	20.4	4.0	22.7	4.1	25.3	4.3	28.0	4.4
105	10.2	3.6	11.6	3.8	13.1	3.9	14.8	4.1	16.6	4.2	18.6	4.4	20.7	4.5	23.0	4.7	25.4	4.8
KOZ061L4		**ZF18K4E**																
90	14.2	3.7	16.2	3.9	18.4	4.0	20.8	4.1	23.4	4.3	26.2	4.4	29.2	4.6	32.4	4.8	35.9	5.0
95	13.7	3.9	15.7	4.0	17.8	4.2	20.1	4.3	22.5	4.5	25.2	4.6	28.1	4.8	31.1	5.0	34.4	5.2
105	12.8	4.2	14.6	4.4	16.5	4.5	18.6	4.7	20.8	4.9	23.2	5.0	25.7	5.2	28.5	5.4	31.4	5.6
KOZ076L4		**ZF24K4E**																
90	16.3	4.9	18.6	5.1	21.1	5.3	23.8	5.6	26.8	5.8	30.0	6.0	33.4	6.2	37.1	6.5	41.1	6.7
95	15.6	5.1	17.8	5.3	20.3	5.5	22.9	5.8	25.7	6.0	28.8	6.2	32.1	6.5	35.6	6.7	39.3	7.0
105	14.1	5.4	16.3	5.6	18.5	5.9	20.9	6.2	23.5	6.4	26.3	6.7	29.2	7.0	32.3	7.2	35.6	7.5
KOZ101L4		**ZF33K4E**																
90	24.2	6.6	27.8	6.9	31.6	7.2	35.7	7.4	40.2	7.7	45.0	8.0	50.1	8.4	55.6	8.7	61.4	9.1
95	23.2	6.9	26.7	7.2	30.4	7.4	34.4	7.7	38.7	8.0	43.3	8.3	48.2	8.7	53.4	9.0	59.0	9.4
105	21.3	7.4	24.5	7.7	28.0	8.0	31.6	8.3	35.6	8.7	39.7	9.0	44.1	9.4	48.9	9.7	53.9	10.1
KOZ131L4		**ZF40K4E**																
90	29.9	8.3	34.0	8.6	38.4	9.0	43.2	9.3	48.4	9.7	53.9	10.1	59.9	10.5	66.3	10.9	73.2	11.3
95	28.7	8.6	32.7	9.0	36.9	9.3	41.5	9.7	46.5	10.1	51.8	10.5	57.5	10.9	63.6	11.3	70.1	11.7
105	26.2	9.3	30.0	9.7	33.9	10.1	38.1	10.5	42.6	10.9	47.4	11.3	52.5	11.7	57.9	12.2	63.7	12.7
KOZ151L4		**ZF48K4E**																
90	34.6	10.1	39.1	10.5	44.2	10.9	49.7	11.3	55.8	11.8	62.4	12.2	69.4	12.7	77.0	13.2	85.0	13.7
95	33.2	10.5	37.6	11.0	42.4	11.4	47.8	11.8	53.6	12.3	59.8	12.7	66.5	13.2	73.7	13.7	81.3	14.2
105	30.4	11.4	34.4	11.9	38.8	12.4	43.7	12.9	48.9	13.4	54.5	13.9	60.5	14.4	66.9	14.9	73.7	15.4

SPECIFICATIONS

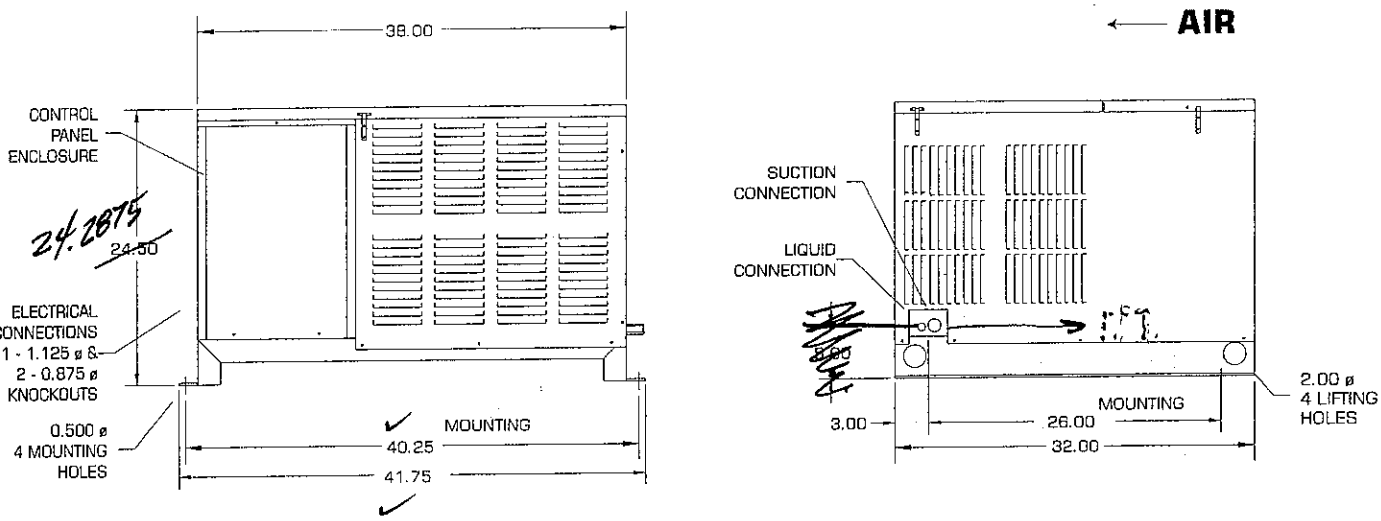
		240/1/60					208-240/3/60								EST. SHIP	DIMEN-
	COMP	COMP	COND	MIN*	MIN*	COMP	COND	MIN*	MIN*	CONNECTIONS (IN)		RECEIVER (lbs)		WEIGHT	SIONS
UNIT MODEL	MODEL	RLA	FLA	AMPS	BREAKER	RLA	FLA	AMPS	BREAKER	LIQ. OD	SUCT. OD	DIA X HEIGHT	CAP.†	(lbs)	P. 20 & 21
KOZ021L4	ZF06K4E	13.6	6.4	23.4	30	9.3	6.4	18.0	20	1/2	7/8	6X18	12.8	274	(B)
KOZ026L4	ZF08K4E	16.4	6.4	26.9	35	9.7	6.4	18.5	20	1/2	7/8	6X18	12.8	283	(B)
KOZ031L4	ZF09K4E	16.4	4.7	25.2	30	11.1	6.4	20.3	25	1/2	7/8	6X18	12.8	283	(B)
KOZ036L4	ZF11K4E	20.7	4.7	30.6	40	13.6	4.7	21.7	25	1/2	1-1/8	6X24	17.6	501	(C)
KOZ041L4	ZF13K4E	26.8	4.7	38.2	50	15.0	4.7	23.5	30	1/2	1-1/8	6X24	17.6	518	(C)
KOZ051L4	ZF15K4E	31.8	4.7	44.5	60	21.4	4.7	31.5	40	1/2	1-1/8	6X30	22.4	548	(C)
KOZ061L4	ZF18K4E	-	-	-	-	23.9	4.7	34.6	45	5/8	1-3/8	8-5/8X32	49.0	607	(C)
KOZ076L4	ZF24K4E	-	-	-	-	30.9	4.7	43.3	50	5/8	1-3/8	8-5/8X32	49.0	737	(C)
KOZ101L4	ZF33K4E	-	-	-	-	44.9	9.4	65.5	80	5/8	1-3/8	10 3/4X28	64.1	928	(D)
KOZ131L4	ZF40K4E	-	-	-	-	54.4	9.4	77.4	100	7/8	1-5/8	10 3/4X28	64.1	968	(D)
KOZ151L4	ZF48K4E	-	-	-	-	60.0	9.4	84.4	110	7/8	1-5/8	14X24	89.9	1128	(D)

		460/3/60				600/3/60								EST. SHIP	DIMEN-
	COMP	COMP	COND	MIN*	MIN*	COMP	COND	MIN*	MIN*	CONNECTIONS (IN)		RECEIVER (lbs)		WEIGHT	SIONS
UNIT MODEL	MODEL	RLA	FLA	AMPS	BREAKER	RLA	FLA	AMPS	BREAKER	LIQ. OD	SUCT. OD	DIA X HEIGHT	CAP.†	(lbs)	P. 20 & 21
KOZ021L4	ZF06K4E	-	-	-	-	-	-	-	-	1/2	7/8	6X18	12.8	274	(B)
KOZ026L4	ZF08K4E	-	-	-	-	-	-	-	-	1/2	7/8	6X18	12.8	283	(B)
KOZ031L4	ZF09K4E	-	-	-	-	-	-	-	-	1/2	7/8	6X18	12.8	283	(B)
KOZ036L4	ZF11K4E	7.1	2.2	11.1	15	5.0	1.2	7.5	10	1/2	1-1/8	6X24	17.6	501	(C)
KOZ041L4	ZF13K4E	8.2	2.2	12.5	15	6.8	1.2	9.7	15	1/2	1-1/8	6X24	17.6	518	(C)
KOZ051L4	ZF15K4E	9.6	2.2	14.2	15	7.9	1.2	11.1	15	1/2	1-1/8	6X30	22.4	548	(C)
KOZ061L4	ZF18K4E	9.3	2.2	13.8	15	7.9	1.2	11.1	15	5/8	1-3/8	8-5/8X32	49.0	607	(C)
KOZ076L4	ZF24K4E	16.2	2.2	22.5	30	11.8	1.2	16.0	20	5/8	1-3/8	8-5/8X32	49.0	737	(C)
KOZ101L4	ZF33K4E	21.7	4.4	31.5	40	16.6	2.4	23.2	30	5/8	1-3/8	10 3/4X28	64.1	928	(D)
KOZ131L4	ZF40K4E	25.8	4.4	36.7	45	20.6	2.4	28.2	35	7/8	1-5/8	10 3/4X28	64.1	968	(D)
KOZ151L4	ZF48K4E	28.2	4.4	39.7	50	22.5	2.4	30.5	40	7/8	1-5/8	14X24	89.9	1128	(D)

† Receiver capacity based on 80% full.
* Minimum circuit amps and minimum circuit breaker sizes are based on air defrost system. If electric defrost is utilized, evaporator fan amps must be added to both values.
NOTE: May also be used with R-507. For capacity, multiply by 1.03; KW X 1.02

DIMENSIONAL DRAWINGS

BASE "B"



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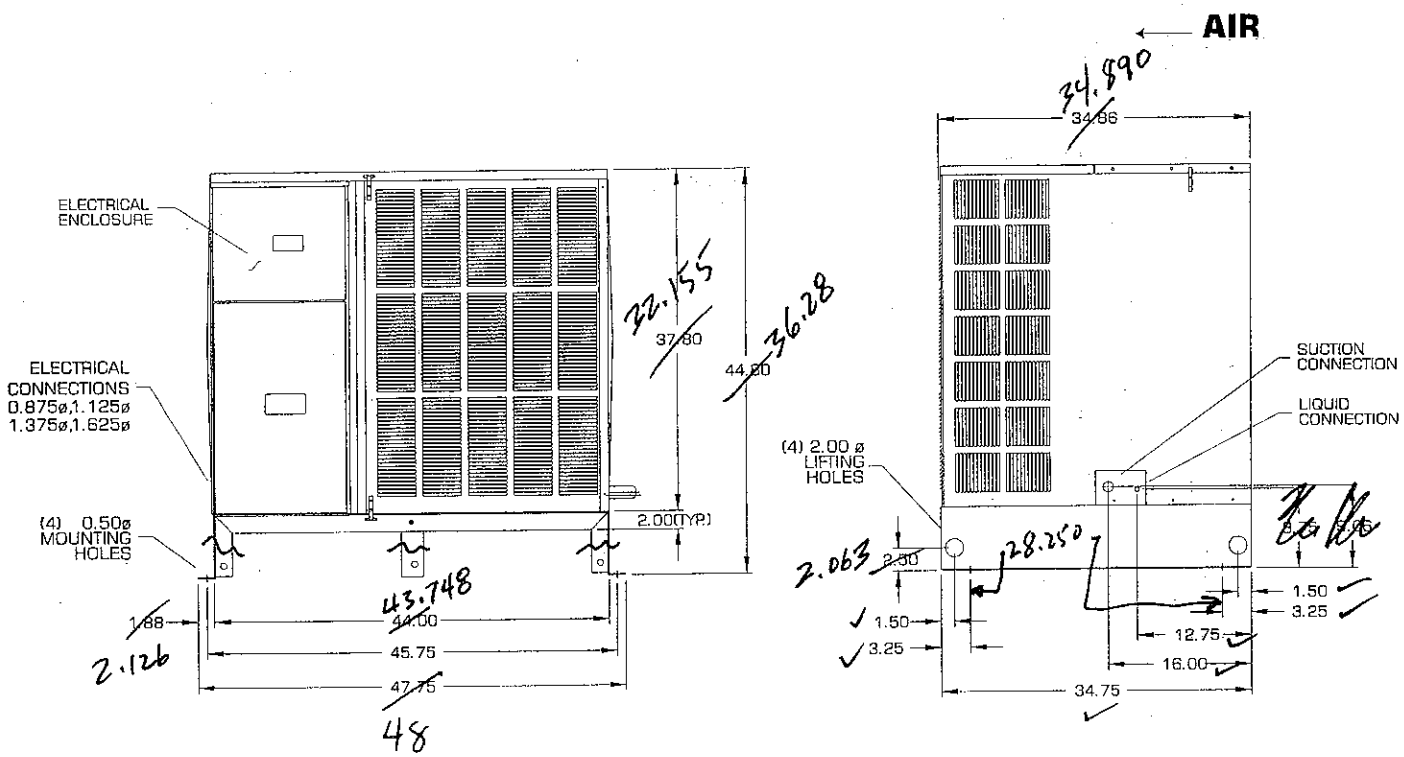

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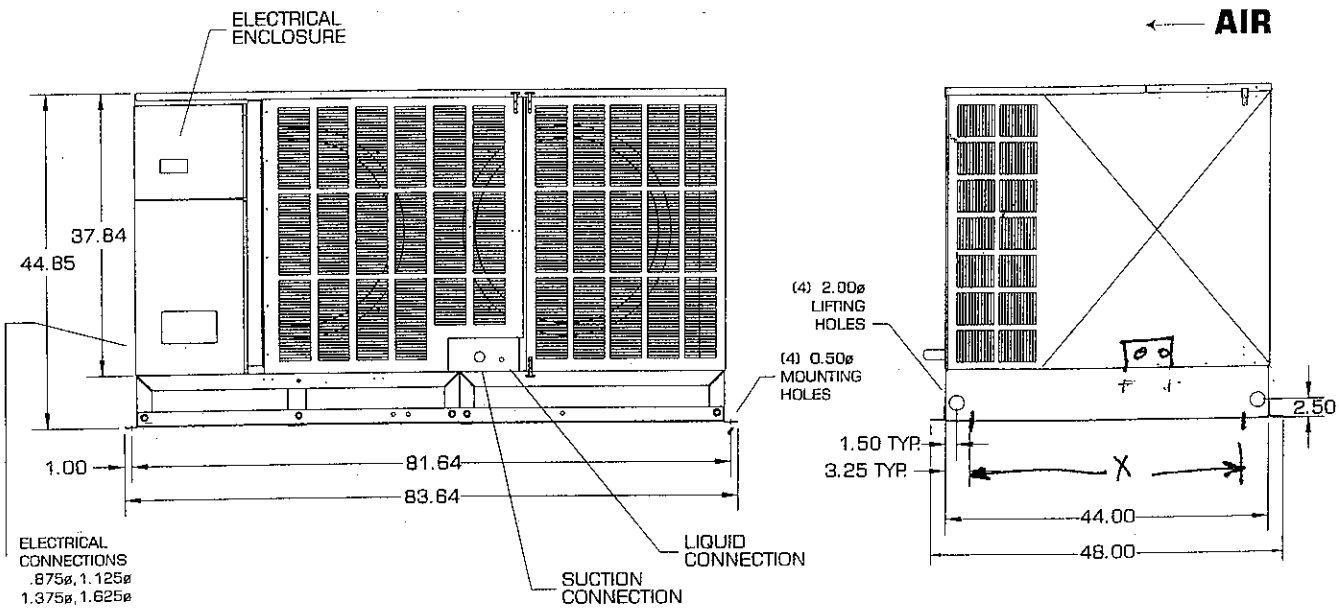

Optional receivers for KO/KI

Base	Std receiver		Optional #1		Optional #2	
size	size	R-22 cap. (lbs)	size	R-22 cap. (lbs)	size	R-22 cap. (lbs)
A&B	5x16	9.3	6x18	15.3	-	-
A&B	6x18	15.3	-	-	-	-
C	6x23	19.7	6x30	25.3	8 5/8x32	55.0
C	6x30	25.3	8 5/8x32	55.0	-	-
C	8 5/8x32	55.0	-	-	-	-
D	8 5/8x32	55.0	10 3/4x28	72.0	14x24	101.0
D	10 3/4x28	72.0	14x24	101.0	16x24	131.0
D	14x24	101.0	16x24	131.0	-	-

KO/KI Defrost Selection Table

New Electric Defrost Kits

ELECT DEFR. UNIT COOLER

Condensing Unit		Electric Defrost Kit	Evaporator Heaters					Evaporator Motors		
			Group A		Group B					
Unit Voltage	Nominal HP	Short Nomenclature	Number of Contactors	Max. Amp.	Number of Contactors	Max. Amp.	Voltage	Number of Contactors	Max. Amp.	Voltage
240/1/60	1,5	E1A	0 *	16	0	0	240/1/60	0 *	3	240/1/60
240/1/60	2	E1B	0 *	20	0	0	240/1/60	0 *	4	240/1/60
240/1/60	3 & 4	E1C	0 *	40	0	0	240/1/60	0 *	7	240/1/60
240/1/60	5	E2A	1	48	0	0	240/1/60	0 *	12	240/1/60
240/3/60	0.5, 0.75 & 1	E1D	0 *	12	0	0	240/1/60	0 *	2	240/1/60
240/3/60	1,5	E1E	0 *	16	0	0	240/1/60	0 *	3	240/1/60
240/3/60	2	E1F	0 *	20	0	0	240/1/60	0 *	4	240/1/60
240/3/60	3	E1G	0 *	28	0	0	240/1/60	0 *	7	240/1/60
240/3/60	3	E1H	0 *	32	0	0	240/1/60	0 *	7	240/1/60
240/3/60	3 & 4	E2B	1	24	0	0	240/3/60	0 *	7	240/1/60
240/3/60	5 & 6	E2C	1	40	0	0	240/3/60	0 *	12	240/1/60
240/3/60	6, 7.5, 9 & 10	E2D	1	48	0	0	240/3/60	0 *	12	240/1/60
240/3/60		E3A	1	48	0	0	240/3/60	1	12	240/3/60
240/3/60		E4A	2	48	0	0	240/3/60	1	12	240/3/60
240/3/60		E4B	4	48	0	0	240/3/60	2	12	240/3/60
240/3/60		E4C	1	48	1	40	240/3/60	1	12	240/3/60
240/3/60		E4D	2	48	2	40	240/3/60	2	12	240/3/60
240/3/60		E4E	1	48	1	24	240/3/60	1	12	240/3/60
240/3/60		E4F	2	48	2	24	240/3/60	2	12	240/3/60
600/3/60		E7G	1	12	0	0	600/3/60	1	4	600/3/60
600/3/60		E7H	1	16	0	0	600/3/60	1	6	600/3/60
600/3/60		E7P	1	20	0	0	600/3/60	1	6	600/3/60
600/3/60		E7I	1	24	0	0	600/3/60	1	8	600/3/60
600/3/60		E7Q	1	28	0	0	600/3/60	1	8	600/3/60
600/3/60		E8G	2	28	0	0	600/3/60	1	12	600/3/60
600/3/60		E7R	1	32	0	0	600/3/60	1	12	600/3/60
600/3/60		E8P	2	32	0	0	600/3/60	1	12	600/3/60
600/3/60		E8G	3	32	0	0	600/3/60	2	12	600/3/60
600/3/60		E7S	1	36	0	0	600/3/60	1	12	600/3/60
600/3/60		E8R	2	36	0	0	600/3/60	1	12	600/3/60
600/3/60		E8S	3	36	0	0	600/3/60	2	12	600/3/60
600/3/60		E8T	4	36	0	0	600/3/60	2	12	600/3/60
600/3/60		E7J	1	40	0	0	600/3/60	1	12	600/3/60
600/3/60		E8H	2	40	0	0	600/3/60	1	12	600/3/60
600/3/60		E8I	3	40	0	0	600/3/60	2	12	600/3/60
600/3/60		E8J	4	40	0	0	600/3/60	2	12	600/3/60
600/3/60		E7K	1	48	0	0	600/3/60	1	12	600/3/60
600/3/60		E8G	2	48	0	0	600/3/60	1	12	600/3/60
600/3/60		E8K	3	48	0	0	600/3/60	2	12	600/3/60
600/3/60		E8L	4	48	0	0	600/3/60	2	12	600/3/60
600/3/60		E8M	1	48	1	40	600/3/60	1	12	600/3/60
600/3/60		E8N	2	48	2	40	600/3/60	2	12	600/3/60

BKR CSR

1 87FL 1 97FM
1 1
2 2
1 1
2 2
1 1
2 2

* E1 defrost kits do not include heater nor motor contactor. E2 defrost kits do not include motor contactor.
** For 480/3/60, E7 becomes E3, E8 becomes E4.

Defrost Kits

Condensing Unit	Defrost Kit	Description
Unit Voltage	Short Nomenclature	
ALL	A1	Air defrost timer
ALL	A2	Air defrost timer, with fan contactor and fuses
ALL	E0A	Electric defrost timer 8141-20 (shipped loose)
ALL	H1A	3-pipe hot gas defrost timer
ALL	H2A	3-pipe hot gas defrost sequential timer for 2 evaporators
ALL	H2B	3-pipe hot gas defrost sequential timer for 3 evaporators
ALL	H2C	3-pipe hot gas defrost sequential timer for 4 evaporators
ALL	H2D	3-pipe hot gas defrost sequential timer for 5 evaporators
ALL	H2E	3-pipe hot gas defrost sequential timer for 6 evaporators

BKR 74FL/76FM?

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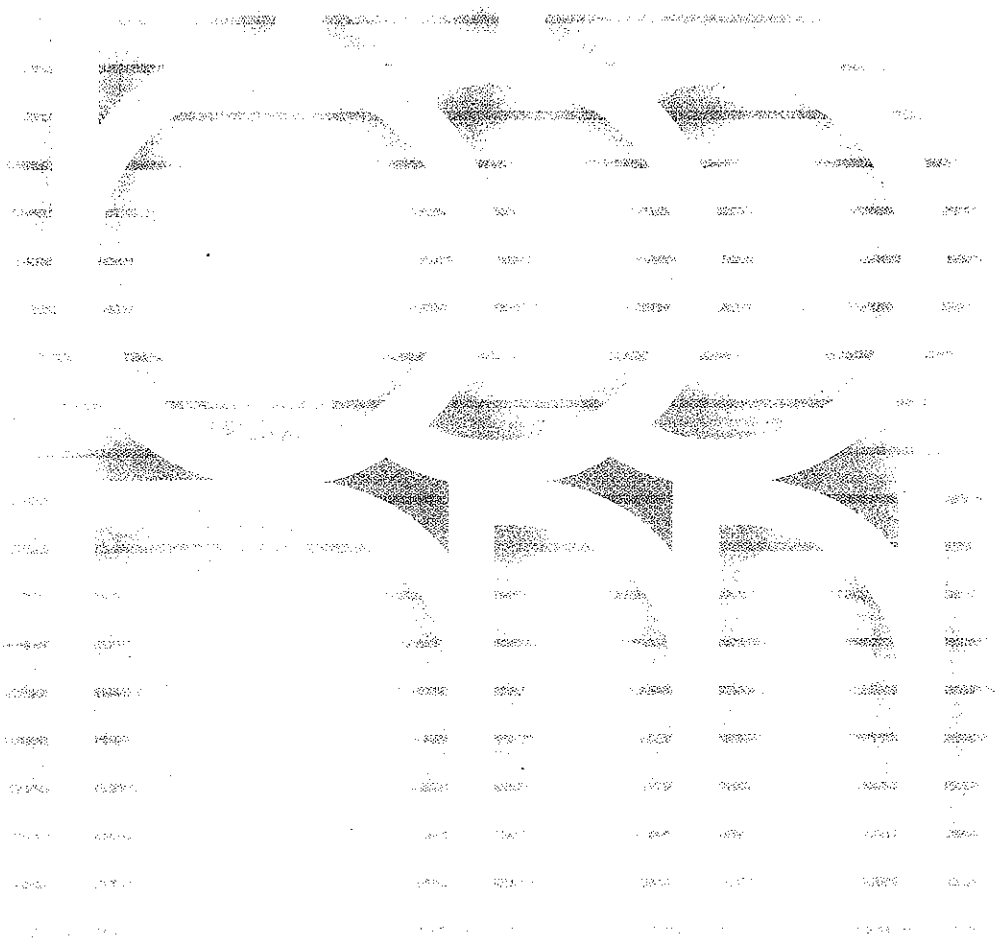
WARRANTY

" **BLANCHARD-NESS** warrants its products to be free from defects in material and workmanship under normal use and service for a period of one year from the date of original installation, or eighteen months from the date of shipment, whichever occurs first.

There are no other warranties, representations, terms or conditions, express or implied, statutory or otherwise and no collateral agreement, oral or in writing, between **BLANCHARD-NESS** and the purchaser and **BLANCHARD-NESS** neither assumes nor authorizes any other person to assume any other obligations or liabilities in connection with the sale of its products, including liabilities arising out of its fault, and that of its agents, employees, or representatives.

BLANCHARD-NESS' liability under this warranty is limited to the repair or replacement, at its option, at its factory, of any part or parts which its examination reveals to be defective. If the purchaser ships the product to the **BLANCHARD-NESS** factory transportation charges prepaid, **BLANCHARD-NESS** will pay return freight to the purchaser via the lowest cost common carrier. **BLANCHARD-NESS** will not be liable for loss, damage, or expense arising directly or indirectly from its negligence or the use of its product or from any other cause."

St-Hubert, Quebec, Canada



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