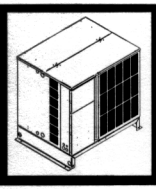
HUSSMANN®

COIL PRODUCTS

TECHNICAL DATA



KO SERIES MODEL KEY

K O D - 080 H 2 K

Condensing Unit

Enclosure
O = Outdoor

Compressor
B = Bitzer
D = Discus
H = Hermetic
S = Semi Hermetic
Z = Scroll

Compressor HP 1/2-20
005 = 1/2HP, etc.
150 = 15HP

Application
H = +10° to +40°F
M = 0° to +25°F
EM = –25° to +25°F
L = –40° to 0°F

Refrigerant
2 = R-22
4 = R-404A
7 = R-507

Voltage
A = 230/1/60
K = 208-230/3/60
M = 460/3/60

KO Series Air-Cooled Condensing Units

Five Compressor Choices • Designed for Serviceability

Bulletin: HTD-KO-800

Supercedes HTD-KO-898

Table of Contents

Key to Abbreviations:

MBH = Thousand BTU/HR

KW = Compressor Power – Thousand Watts

PERFORMANCE DATA Semi-Hermetic Medium Temperature R-404A

UNIT MODEL	COMP. 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	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	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#-010E	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	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	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	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	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

UNIT MODEL	COMP. MODEL	208-230/1/60 COMP. RLA	208-230/1/60 COND. FLA	208-230/1/60 MIN.* AMPS	208-230/1/60 MIN.* BREAKER	208-230/3/60 COMP. RLA	208-230/3/60 COND. FLA	208-230/3/60 MIN.* AMPS	208-230/3/60 MIN.* BREAKER	CONNECTIONS (IN) LIQ. OD	CONNECTIONS (IN) SUCT. OD	RECEIVER (LB) DIA.×HEIGHT	RECEIVER (LB) CAP.†	EST. SHIP WEIGHT (LB)	DIMEN-SIONS, PAGE 22
KOS005M4	HAJ#-005E	3.7	3.2	7.8	15		—	—	—	3/8	7/8	5×16	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	5×16	8.3	286	(A)
KOS015M4	KAG#-010E	7.5	6.4	15.8	20	4.3	6.4	11.8	15	3/8	7/8	5×16	8.3	298	(A)
KOS020M4	KAK#-021E	10.6	6.4	19.7	30	6.8	6.4	14.9	20	1/2	7/8	6×18	13.6	311	(A)
KOS021M4	ERC#-021E	-				8.8	6.4	17.4	20	1/2	7/8	6×18	13.6	373	(A)
KOS030M4	ERF#-031E	17.0	4.7	26.0	30	12.4	4.7	20.2				6×23			
KOS031M4	3RA#-031E	—				14.5	4.7	22.8				6×23			

UNIT MODEL	COMP. MODEL	460/3/60 COMP. RLA	460/3/60 COND. FLA	460/3/60 MIN.* AMPS	460/3/60 MIN.* BREAKER	CONNECTIONS (IN) LIQ. OD	CONNECTIONS (IN) SUCT. OD	RECEIVER (LB) DIA.×HEIGHT	RECEIVER (LB) CAP.†	EST. SHIP WEIGHT (LB)	DIMEN-SIONS, PAGE 22
		6.3	2.2	10.1	15	1/2	1-1/8	6×23	17.5	510	(B)

† 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×1.02.

PERFORMANCE DATA with Copeland Discus High Temperature R-22

UNIT MODEL	COMP. MODEL	AMB. °F	0°F SST MBH	0°F SST KW	5°F SST MBH	5°F SST KW	10° SST MBH	10° 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	40°F SST MBH	40°F SST KW	45°F SST MBH	45°F SST KW
KOD050H2	2DC3-050E	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	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	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	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	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	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	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	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

UNIT MODEL	COMP. MODEL	208-230/1/60 COMP. RLA	208-230/1/60 COND. FLA	208-230/1/60 MIN.* AMPS	208-230/1/60 MIN.* BREAKER	CONNECTIONS (IN) LIQ. OD	CONNECTIONS (IN) SUCT. OD	RECEIVER DIA.×HEIGHT	(LB) CAP.†	EST. SHIP WEIGHT (LB)	DIMENSIONS, PAGE 22
KOD050H2	2DC3-0500	29.9	4.7	42.1	50	1/2	1-1/8	6×23	19.7	623	(B)

UNIT MODEL	COMP. MODEL	208-230/3/60 COMP. RLA	208-230/3/60 COND. FLA	208-230/3/60 MIN.* AMPS	208-230/3/60 MIN.* BREAKER	460/3/60 COMP. RLA	460/3/60 COND. FLA	460/3/60 MIN.* AMPS	460/3/60 MIN.* BREAKER	CONNECTIONS (IN) LIQ. OD	CONNECTIONS (IN) SUCT. OD	RECEIVER DIA.×HEIGHT	(LB) CAP.†	EST. SHIP WEIGHT (LB)	DIMENSIONS, PP. 22-23
KOD050H2	2DC3-050E	22.3	4.7	32.6	40	10.4	2.2	15.2	20	1/2	1-1/8	6×23	19.7	623	(B)
KOD051H2	2DD3-050E	22.3	4.7	32.6	40	10.5	2.2	15.3	20	1/2	1-1/8	6×30	25.3	644	(B)
KOD075H2	2DL3-075E	31.6	4.7	44.2	60	13.8	2.2	19.5	25	5/8	1-3/8	8-5/8×32	55.0	712	(B)
KOD080H2	2DA3-075E	32.0	9.4								1-3/8	8-5/8×32	55.0		
KOD090H2	3DA3A075E	41.0	9.4								1-3/8	8-5/8×32	55.0		
KOD100H2	3DB3A100E	43.6	9.4								1-3/8	10-3/4×28	72.0		
KOD120H2	3DF3A120E	48.2	9.4								1-3/8	10-3/4×28	72.0		
KOD150H2	3DS3A150E	59.6	9.4								1-5/8	14×24	101.0		(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.

PERFORMANCE DATA Semi-Hermetic Medium-High Temperature R-22

UNIT MODEL	COMP. MODEL	AMB. °F	−5°F SST MBH	KW	0°F SST MBH	KW	5° 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	HAJ10050	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	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	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	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	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	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	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#-031E	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	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	COMP. MODEL	208-230/1/60 COMP. RLA	COND. FLA	MIN.* AMPS	MIN.* BREAKER	208-230/3/60 COMP. RLA	COND. FLA	MIN.* AMPS	MIN.* BREAKER	CONNECTIONS (IN) LIQ. OD	SUCT. OD	RECEIVER DIA.×HEIGHT	(LB) CAP.†	EST. SHIP WEIGHT (LB)	DIMENSIONS, PAGE 22
	HAJ2-0050	3.7	3.2	7.8	15	—	—	—	—	3/8	7/8	5×16	9.3	265	(A)
	KAE#-0075	5.4	3.2	10.0	15	3.4	3.2	7.5	15	3/8	7/8	5×16	9.3	284	(A)
	KAM#-0100	7.5	3.2	12.6	15	4.5	3.2	8.8	15	3/8	7/8	5×16	9.3	284	(A)
	KAG#-0150	9.6	6.4	18.4	20	5.5	6.4	13.3	15	3/8	7/8	5×16	9.3	301	(A)
	KAK#-0200	10.6	6.4	19.7	30	6.8	6.4	14.9	20	1/2	7/8	6×18	15.3	311	(A)
	ERC#-0200	10.9	6.4	20.0	25	6.8	6.4	14.9	20	1/2	7/8	6×18	15.3	373	(A)
	3RA#-0310	17.8	4.7	27.0	35	14.2	4.7	22.5	25	1/2	1-1/8	6×23			
	ERF#-031E	17.0	4.7	26.0	30	12.4	4.7	20.2	25	1/2	1-1/8	6×23			
	NRA2-0500	—	—	—	—	19.2	4.7	28.7	35	1/2	1-1/8	6×23			

†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.

PERFORMANCE DATA *Hermetic High Temperature R-22*

UNIT MODEL	COMP. MODEL	AMB. °F	0°F SST MBH	0°F SST KW	5°F SST MBH	5°F SST KW	10° SST MBH	10° 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	40°F SST MBH	40°F SST KW	45°F SST MBH	45°F SST KW
KOH005H2	ART69C1	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	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	0.9	4.8	0.9	5.6	1.0	6.4	1.0	7.3	1.1	8.3	1.16	9.3	1.22	10.4	1.29	11.6	1.4
KOH013H2	RS70C1	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	95	5.5	1.0	6.5	1.1	7.7	1.1	9	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	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	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	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	3.0	32.8	3.14	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	3.1	29.5	3.27	33.3	3.5	37.3	3.7
KOH040H2	CRM3-0400	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	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

SPECIFICATIONS

UNIT MODEL	COMP. MODEL	208-230/1/60 COMP. RLA	208-230/1/60 COND. FLA	208-230/1/60 MIN.* AMPS	208-230/1/60 MIN.* BREAKER	208-230/3/60 COMP. RLA	208-230/3/60 COND. FLA	208-230/3/60 MIN.* AMPS	208-230/3/60 MIN.* BREAKER	CONNECTIONS (IN) LIQ. OD	CONNECTIONS (IN) SUCT. OD	RECEIVER DIA.×HEIGHT	RECEIVER (LB) CAP.†	EST. SHIP WEIGHT (LB)	DIMENSIONS, PAGE 22
KOH005H2	ART69C1	6.1	3.2	10.8	15	—	—	—	—	3/8	7/8	5×16	9.3	230	(A)
KOH009H2	RRG4-0100	6.7	3.2	11.6	15	—	—	—	—	3/8	7/8	5×16	9.3	241	(A)
KOH013H2	RS70C1	7.0	3.2	12.0	15	4.7	3.2	9.1	15	3/8	7/8	5×16	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	6×18	15.3	273	(A)
KOH020H2	CRD1-0200	13.4	6.4	23.2	25	8.7	6.4	17.3	20	1/2	7/8	6×18	15.3	275	(A)
KOH031H2	CRJ3-0300	22.5						22.6			1-1/8	6×23			
KOH040H2	CRM3-0400	30.7						27.1			1-1/8	6×23			
KOH050H2	CRN5-0500	34.3						31.5			1-1/8	6×23			

UNIT MODEL	COMP. MODEL	COMP. RLA	COND. FLA	MIN.* AMPS	MIN.* BREAKER	CONNECTIONS (IN) LIQ. OD	CONNECTIONS (IN) SUCT. OD	RECEIVER DIA.×HEIGHT	RECEIVER (LB) CAP.†	EST. SHIP WEIGHT (LB)	DIMENSIONS, PAGE 22
KOH050H2	CRN5-0500	9.6	2.2	14.2	15	1/2	1-1/8	6×23	19.7	423	(B)

† 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. Consult factory for information.

PERFORMANCE DATA Hermetic Extended Medium Temperature R-404A

UNIT MODEL	COMP. MODEL	AMB. °F	−25°F SST MBH	−25°F SST KW	−20°F SST MBH	−20°F SST KW	−15° SST MBH	−15° 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	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
KOH005EM4	RS43C1E	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	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	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	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	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	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	CS27K3E	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	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

UNIT MODEL	COMP. MODEL	208-230/1/60 COMP. RLA	208-230/1/60 COND. FLA	208-230/1/60 *MIN.* AMPS	208-230/1/60 *MIN.* BREAKER	208-230/3/60 COMP. RLA	208-230/3/60 COND. FLA	208-230/3/60 *MIN.* AMPS	208-230/3/60 *MIN.* BREAKER	CONNECTIONS (IN) LIQ. OD	CONNECTIONS (IN) SUCT. OD	RECEIVER DIA.×HEIGHT	(LB) CAP.†	EST. SHIP WEIGHT (LB)	DIMENSIONS, PAGE 22
KOH005EM4	RS43C1E	5.7	3.2	10.3	15	—	—	—	—	3/8	7/8	5×16	8.3	252	(A)
KOH010EM4	RS64C1E	9.2	3.2	14.7	20	—	—	—	—	3/8	7/8	5×16	8.3	255	(A)
KOH013EM4	RS97C1E	11.0	3.2	17.0	20	7.0	3.2	12.0	15	3/8	7/8	5×16	8.3	258	(A)
KOH018EM4	CS12K6E	10.9	6.4	20.0	25	7.5	6.4	15.8	20	1/2	7/8	6×18	13.6	288	(A)
KOH020EM4	CS14K6E	12.4	6.4	21.9	25	9.1	6.4	17.8	20	1/2	7/8	6×18	13.6	289	(A)
KOH030EM4	CS20K6E	18.6	6.4	29.7	35	11.4	6.4	20.7	25	1/2	7/8	6×18	13.6	293	(A)
KOH040EM4	CS27K3E	23.9	4.7	34.6	45	15.6	4.7	24.2	30	1/2	1-1/8	6×23	17.5	421	(B)
KOH050EM4	CS33K3E	30.7	4.7	43.1	50	20.7	4.7	30.6	40	1/2	1-1/8	6×23	17.5	425	(B)

† 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.

A Wide Selection of Models Featuring a Range of Compressor Types to Satisfy Your Specific Application Needs.

Choose from the following KO Series Compressor Types:

- **KOH Series** with Hermetic Compressors
- **KOB Series** with Bitzer Compressors
- **KOD Series** with Copeland Discus 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
- Internal driven shaft oil pump—3HP and larger (semi-hermetic/Discus)
- Back-seating suction and discharge valves
- Manual reset oil failure safety switch on (semi-hermetic/Discus)3HP and larger models
- Automatic reset adjustable low suction pressure switch
- Manual reset high pressure control
- Single and three phase electrical service availability.
- Discharge temperature safety on scroll units (KOZ)

CONDENSER COIL

- Constructed with 3/8" OD copper tube with 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 FPI for increased efficiency.
- A separate sub-cooling circuit on 3HP models and larger, 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. 3HP models and higher 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 for servicing internal components. (3HP and above)

REFRIGERANT CIRCUIT

- Filter drier and sightglass installed on liquid line.
- Suction filter is standard.
- Scroll only - suction accumulator standard

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

3HP and above 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 board.

FANS

- One or two horizontal discharge fans 14" or 24" diameter with fan section divided by full width galvanized baffles to prevent air by-pass. 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 slugs.
- Adjustable low ambient 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.
- Insulated receiver for extreme ambient conditions.
- Fused disconnect.
- Electrical control panel with all necessary controls to run the electric defrost evaporators including time clock, heater and evaporator motor contactors.

PERFORMANCE DATA with Copeland Discus Medium Temperature R-404A

UNIT MODEL	COMP. MODEL	-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	
			KW	MBH	KW			MBH	KW	MBH	KW		KW	MBH	KW		KW	MBH	KW
KOD050M4	2DC3-050E																		
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																		
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																		
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																		
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																		
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																		
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																		
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	3DS3A50E																		
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

UNIT MODEL	COMP. MODEL	208-230/3/60 COMP. RLA	208-230/3/60 COND. FLA	208-230/3/60 MIN.* AMPS	208-230/3/60 MIN.* BREAKER	460/3/60 COMP. RLA	460/3/60 COND. FLA	460/3/60 MIN.* AMPS	460/3/60 MIN.* BREAKER	CONNECTIONS (IN) LIQ. OD	CONNECTIONS (IN) SUCT. OD	RECEIVER DIA.×HEIGHT	RECEIVER (LB) CAP.†	EST. SHIP WEIGHT (LB)	DIMENSIONS, PP. 22-23
KOD050M4	2DC3-050E	22.3	4.7	32.6	40	10.4	2.2	15.2	20	1/2	1-1/8	6×23	17.5	623	(B)
KOD051M4	2DD3-050E	22.3	4.7	32.6	40	10.5	2.2	15.3	20	1/2	1-1/8	6×30	22.5	644	(B)
KOD075M4	2DL3-075E	31.6	4.7	44.2	60	13.8	2.2	19.5	25	5/8	1-3/8	8-5/8×32	49.0	712	(B)
KOD080M4	2DA3-075E	32.0	4.7	44.7	60	14.1	2.2	19.8	25	5/8	1-3/8	8-5/8×32	49.0	712	(B)
KOD090M4	3DA3A075E	41.0	9.4	60.7		20.0	4.4	29.4			1-3/8	8-5/8×32	49.0	1045	
KOD100M4	3DB3A100E	43.6	9.4	63.9		20.0	4.4	29.4			1-3/8	10-3/4×28	64.1	1078	
KOD120M4	3DF3A120E	48.2	9.4	69.7		23.6	4.4	33.9			1-3/8	10-3/4×28	64.1	1123	
KOD150M4	3DS3A150E	59.6	9.4	83.9		29.0	4.4	40.7			1-5/8	14×24	89.9	1161	

† 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×1.02.

PERFORMANCE DATA Semi-Hermetic Low Temperature R-22

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
KOS008L2	KAMB-0075	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-0100	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	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	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#	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

UNIT MODEL	COMP. MODEL	208-230/1/60 COMP. RLA	208-230/1/60 COND. FLA	208-230/1/60 MIN.* AMPS	208-230/1/60 MIN.* BREAKER	208-230/3/60 COMP. RLA	208-230/3/60 COND. FLA	208-230/3/60 MIN.* AMPS	208-230/3/60 MIN.* BREAKER	CONNECTIONS (IN) LIQ. OD	CONNECTIONS (IN) SUCT. OD	RECEIVER DIA.×HEIGHT	RECEIVER (LB) CAP.†	EST. SHIP WEIGHT (LB)	DIMENSIONS, PAGE 22
KOS008L2	KAMB-0075	5.6	3.2	10.2	15	3.2	3.2	7.2	15	3/8	7/8	5×16	9.3	284	(A)
KOS010L2	KAJB-0100	6.9	3.2	11.8	15	4.5	3.2	8.8	15	3/8	7/8	5×16	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	6×18	15.3	311	(A)
KOS020L2	EAV#-0210	14.7	6.4	24.8	30	7.4	6.4	15.7	20	1/2	7/8	6×18	15.3	373	(A)
KOS025L2	LAH#-031#	16.6													

† 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.

PERFORMANCE DATA with Copeland Discus Low Temperature R-22

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
KOD030L2	2DF3-030E	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	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	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	32.1	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	33.6	5.5	39.0	5.9
KOD060L2	3DA3A060E	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	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	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	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	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	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	COMP. MODEL	208-230/3/60 COMP. RLA	208-230/3/60 COND. FLA	208-230/3/60 MIN.* AMPS	208-230/3/60 MIN.* BREAKER	460/3/60 COMP. RLA	460/3/60 COND. FLA	460/3/60 MIN.* AMPS	460/3/60 MIN.* BREAKER	CONNECTIONS (IN) LIQ. OD	CONNECTIONS (IN) SUCT. OD	RECEIVER DIA.×HEIGHT	RECEIVER (LB) CAP.†	EST. SHIP WEIGHT (LB)	DIMENSIONS, PP. 22-23
KOD030L2**	2DF3-030E	16.8	4.7	25.7	30	8.1	2.2	12.3	15	1/2	1-1/8	6×23	19.7	613	(B)
KOD040L2	2DL3-040E	26.3	4.7	37.6	50	10.2	2.2	15.0	20	1/2	1-1/8	6×23	19.7	613	(B)
KOD050L2	2DB3-060E	28.2	4.7	40.0	50	13.3	2.2	18.8	25	1/2	1-1/8	6×30	25.3	643	(B)
KOD060L2	3DA3A060E	30.3	4.7	42.6	50	16.8	2.2	23.2	30	5/8	1-3/8	8-5/8×32	55.0	726	(B)
KOD080L2	3DB3A075E	31.5	4.7	44.1	50	16.1	2.2	22.3	30	5/8	1-3/8	8-5/8×32	55.0	757	(B)
KOD090L2	3DF3A090E	39.0	9.4	58.2		16.9	4.4	25.5		5/8	1-3/8	8-5/8×32	55.0	1045	
KOD100L2	3DS3A100E	42.0	9.4	61.9		18.6	4.4	27.7		5/8	1-5/8	10-3/4×28	72.0	1102	
KOD150L2	4DL3-150E	52.6	9.4	75.2		26.3	4.4	37.3		7/8	2-1/8	14×24	101.0	1215	
KOD200L2	4DT3-220E	66.0	9.4	91.9		33.0	4.4	45.7		7/8	2-1/8	14×24	101.0	1223	

Electrical specifications for **208-230/1/60 model as follows: **COMP. RLA** 25.8; **COND. FLA** 4.7; **MIN.* AMPS** 37.0; **MIN.* BREAKER** 45.

†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.

PERFORMANCE DATA *Semi-Hermetic Low Temperature R-404A*

UNIT MODEL	COMP. MODEL	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
KOS008L4	KAM#-007E																			
		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																			
		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	5.8	1.2	6.6	1.3
KOS015L4	KAL#-015E																			
		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																			
		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																			
		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																			
		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

SPECIFICATIONS

UNIT MODEL	COMP. MODEL	208-230/1/60 COMP.	COND.	MIN.*	MIN.*	208-230/3/60 COMP.	COND.	MIN.*	MIN.*	CONNECTIONS (IN)		RECEIVER	(LB)	EST. SHIP WEIGHT (LB)	DIMEN-SIONS, PAGE 22
KOS008L4	KAM#-007E	5.4	3.2	10.0	15	3.4	3.2	7.5	15	3/8	7/8	5×16	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	5×16	8.3	286	(A)
KOS015L4	KAL#-015E	9.9	6.4	18.8	20	6.6	6.4	14.7	20	1/2	1-7/8	6×18	13.6	311	(A)
KOS020L4	EAV#-021E	14.7	6.4	24.8	30	7.4	6.4	15.7	20	1/2	7/8	6×18	13.6	373	(A)
KOS021L4	3AB#-032E	14.7	4.7	23.1	30	10.0	4.7	17.2	20	1/2	1-1/8	6×23	17.5	523	(B)
KOS025L4	LAH#-032E	16.7	4.7	25.6	30	12.8	4.7	20.7	25	1/2	1-1/8	6×23	17.5	543	(B)

†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×1.02.

DIMENSIONAL DRAWINGS

FIGURE A

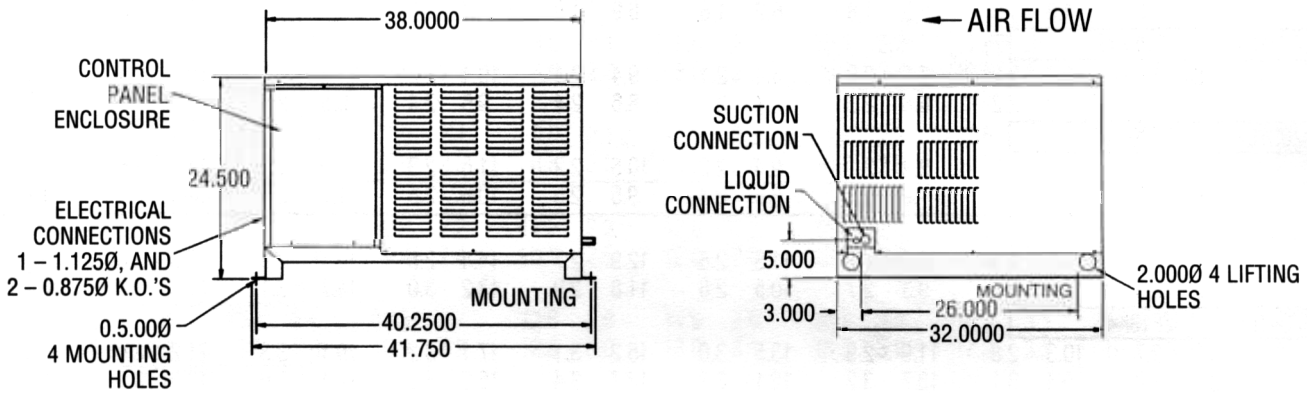
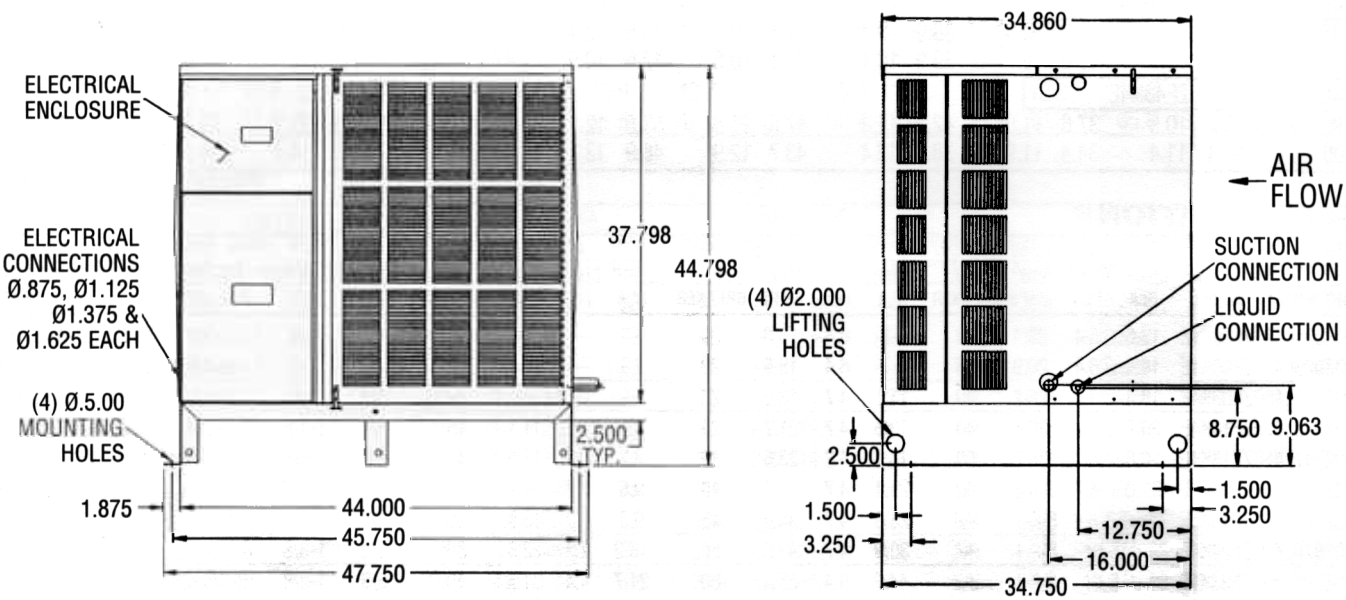


FIGURE B



PERFORMANCE DATA with Copeland Scroll Low Temperature R-404a

UNIT MODEL	COMP. MODEL	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	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	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	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	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	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	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	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	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	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	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	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

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	460 / 3 / 60 COMP. RLA	460 / 3 / 60 COND. FLA	460 / 3 / 60 MIN.* AMPS	460 / 3 / 60 MIN.* BREAKER	CONNECTIONS (IN) LIQ.	CONNECTIONS (IN) SUCT.	RECEIVER (lbs) DIA.×HT.	RECEIVER (lbs) CAP.†	EST.SHIP WEIGHT (lbs)	DIMEN-SIONS PP. 22-23
KOZ021L4	ZF06K4E	13.6	6.4	23.4	30	9.3	6.4	18.0	20	—	—	—	—	1/2	7/8	6×18	12.8	274	(A)
KOZ026L4	ZF08K4E	16.4	6.4	26.9	35	9.7	6.4	18.5	20	—	—	—	—	1/2	7/8	6×18	12.8	283	(A)
KOZ031L4	ZF09K4E	16.4	4.7	25.2	30	11.1	4.7	18.6	20	—	—	—	—	1/2	7/8	6×18	12.8	283	(A)
KOZ036L4	ZF11K4E	20.7	4.7	30.6	40	13.6	4.7	21.7	25	7.1	2.2	11.1	15	1/2	1-1/8	6×24	17.6	501	(B)
KOZ041L4	ZF13K4E	26.8	4.7	38.2	50	15.0	4.7	23.5	30	8.2	2.2	12.5	15	1/2	1-1/8	6×24	17.6	518	(B)
KOZ051L4	ZF15K4E	31.8	4.7	44.5	60	21.4	4.7	31.5	40	9.6	2.2	14.2	15	1/2	1-1/8	6×30	22.4	548	(B)
KOZ061L4	ZF18K4E	—	—	—	—	23.9	4.7	34.6	45	9.3	2.2	13.8	15	5/8	1-3/8	8-5/8×32	49.0	607	(B)
KOZ076L4	ZF24K4E	—	—	—	—	30.9	4.7	43.3	50	16.2	2.2	22.5	30	5/8	1-3/8	8-5/8×32	49.0	737	(B)
KOZ101L4	ZF33K4E	—	—	—	—	44.9	9.4	65.5	80	21.7	4.4	31.5	40	5/8	1-3/8	10-3/4×28	64.1	928	(C)
KOZ131L4	ZF40K4E	—	—	—	—	54.4	9.4	77.4	100	25.8	4.4	36.7	45	5/8	1-5/8	10-3/4×28	64.1	968	(C)
KOZ151L4	ZF48K4E	—	—	—	—	60.0	9.4	84.4	110	28.2	4.4	39.7	50	5/8	1-5/8	14×24	89.9	1128	(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.

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

KOZ Series Air-Cooled Condensing Units

PERFORMANCE DATA with Copeland Scroll Low Temperature R-22

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
KOZ021L2	ZF06K4E	95	4.3	1.6	4.9	1.6	5.5	1.6	6.3	1.6	7.1	1.7	8.0	1.7	9.0	1.7	10.1	1.8	11.2	1.8
		105	4.2	1.7	4.7	1.8	5.3	1.8	6.0	1.8	6.8	1.8	7.7	1.9	8.6	1.9	9.6	1.9	10.7	2.0
KOZ 026L2	ZF08K4E	95	5.5	2.0	6.2	2.0	7.0	2.0	8.0	2.1	9.0	2.1	10.1	2.2	11.4	2.2	12.7	2.3	14.1	2.3
		105	5.3	2.2	6.0	2.2	6.8	2.3	7.6	2.3	8.6	2.3	9.7	2.4	10.8	2.4	12.1	2.5	13.4	2.5
KOZ 031L2	ZF09K4E	95	6.1	2.0	7.0	2.0	7.9	2.1	9.0	2.1	10.1	2.2	11.3	2.3	12.6	2.3	14.0	2.4	15.5	2.5
		105	5.8	2.2	6.7	2.2	7.6	2.3	8.5	2.3	9.6	2.4	10.7	2.5	11.9	2.6	13.3	2.6	14.7	2.7
KOZ 036L2	ZF11K4E	95	7.7	2.1	8.7	2.2	9.9	2.2	11.2	2.3	12.6	2.3	14.2	2.4	15.8	2.5	17.6	2.6	19.6	2.7
		105	7.3	2.3	8.3	2.4	9.4	2.4	10.6	2.5	12.0	2.6	13.4	2.7	15.0	2.7	16.7	2.8	18.5	2.9
KOZ 041L2	ZF13K4E	95	8.9	2.5	10.1	2.6	11.5	2.7	12.9	2.8	14.6	2.9	16.4	3.0	18.3	3.1	20.4	3.2	22.7	3.3
		105	8.4	2.7	9.6	2.8	10.9	2.9	12.3	3.0	13.8	3.1	15.5	3.2	17.3	3.3	19.3	3.4	21.5	3.5
KOZ 051L2	ZF15K4E	95	10.9	3.2	12.4	3.2	14.1	3.3	15.9	3.4	18.0	3.5	20.1	3.6	22.5	3.7	25.1	3.8	27.9	4
		105	10.4	3.4	11.8	3.5	13.4	3.6	15.1	3.7	17.0	3.8	19.1	3.9	21.4	4.0	23.8	4.1	26.4	4.3
KOZ 061L2	ZF18K4E	95	10.5	3.6	11.9	3.6	13.6	3.7	15.4	3.8	17.4	3.8	19.6	3.9	22.0	4.0	24.6	4.1	27.4	4.2
		105	9.9	3.9	11.3	4.0	12.9	4.0	14.6	4.1	16.5	4.2	18.6	4.3	20.8	4.4	23.3	4.4	26.0	4.6
KOZ 076L2	ZF24K4E	95	15.3	5.0	17.4	5.2	19.7	5.4	22.3	5.6	25.1	5.7	28.1	5.9	31.5	6.1	35.1	6.3	39.0	6.5
		105	14.5	5.3	16.6	5.5	18.8	5.7	21.2	6.0	23.8	6.2	26.7	6.4	29.8	6.6	33.2	6.8	36.9	7.1
KOZ 101L2	ZF33K4E	95	22.2	6.1	25.1	6.4	28.3	6.6	31.9	6.9	35.9	7.2	40.3	7.4	45.1	7.7	50.3	8.0	55.9	8.4
		105	21.9	6.6	24.4	6.9	27.2	7.2	30.5	7.4	34.2	7.7	38.3	8.0	42.8	8.4	47.7	8.7	53.1	9
KOZ 131L2	ZF40K4E	95	26.3	7.8	29.9	8.1	34.0	8.4	38.4	8.7	43.3	9.0	48.6	9.4	54.4	9.7	60.8	10.1	67.7	10.5
		105	24.9	8.4	28.4	8.7	32.2	9.1	36.3	9.4	40.9	9.8	45.9	10.1	51.4	10.5	57.3	10.9	63.8	11.4
KOZ 151L2	ZF48K4E	95	30.2	9.8	34.4	10.2	39.0	10.5	44.1	10.9	49.7	11.4	55.8	11.8	62.5	12.2	69.8	12.7	77.7	13.2
		105	28.6	10.6	32.6	11.0	36.9	11.4	41.7	11.8	47.0	12.3	52.7	12.8	59.0	13.3	65.8	13.8	73.2	14.3

SPECIFICATIONS

		240 / 1 / 60				208-240 / 3 / 60				460 / 3 / 60				CONNECTIONS (IN)		RECEIVER (lbs)		EST. SHIP WEIGHT	DIMENSIONS
UNIT MODEL	COMP MODEL	COMP. RLA	COND. FLA	MIN.* AMPS	MIN.* BREAKER	COMP. RLA	COND. FLA	MIN.* AMPS	MIN.* BREAKER	COMP. RLA	COND. FLA	MIN.* AMPS	MIN.* BREAKER	LIQ.	SUCT.	DIA.×HT.	CAP.†	(lbs)	PP. 22-23
KOZ021L2	ZF06K4E	13.6	6.4	23.4	30	9.3	4	18.0	20			—		1/2	7/8	6×18	12.8	274	
KOZ026L2	ZF08K4E	16.4	6.4	26.9	35	9.7	4	18.5	20			—		1/2	7/8	6×18	12.8	283	(A)
KOZ031L2	ZF09K4E	16.4	4.7	25.2	30	11.1	7	18.6	20	—	—	—		1/2	7/8	6×18	12.8	283	(A)
KOZ036L2	ZF11K4E	20.7	4.7	30.6		13.6	7	21.7		7.1	2.2	11.1	15	1/2		6×24	17.6		
KOZ041L2	ZF13K4E	26.8	4.7	38.2		15.0	7	23.5		8.2	2.2	12.5	15	1/2		6×24	17.6		
KOZ051L2	ZF15K4E	31.8	4.7	44.5		21.4	7	31.5		9.6	2.2	14.2	15	1/2		6×30	22.4		
KOZ061L2	ZF18K4E	—	—	—		23.9	7	34.6		9.3	2.2	13.8	15	5/8		8-5/8×32	49.0		
KOZ076L2	ZF24K4E	—	—	—		30.9	7	43.3		16.2	2.2	22.5	30	5/8		8-5/8×32	49.0		
KOZ101L2	ZF33K4E	—	—	—		44.9	4	65.5		21.7	4.4	31.5		5/8		10-3/4×28	64.1		
KOZ131L2	ZF40K4E	—	—	—		54.4	4	77.4		25.8	4.4	36.7		5/8		10-3/4×28	64.1		
KOZ151L2	ZF48K4E	—	—	—		60.0	4	84.4		28.2	4.4	39.7		5/8		14×24	89.9		

† Receiver capacity based on 80% full.

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

PERFORMANCE DATA with Copeland Scroll Medium Temperature R-404a

UNIT MODEL	COMP. MODEL	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
KOZ021M4	ZS15K4E	95	10.5	1.9	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	9.6	2.0	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
KOZ025M4	ZS19K4E	95	12.7	2.2	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	11.6	2.4	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	95	14.8	2.2	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	13.5	2.4	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	95	18.1	2.7	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	16.6	3.0	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	95	19.6	3.6	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	17.7	4.1	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	95	25.6	4.0	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	23.3	4.4	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	95	30.8	4.7	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	28.3	5.1	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	95	36.0	6.3	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	33.0	6.6	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	95	51.4	8.6	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	46.6	9.2	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	95	62.9	10.7	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	57.6	11.5	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	95	73.5	13.2	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	66.8	14.2	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

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	460 / 3 / 60 COMP. RLA	460 / 3 / 60 COND. FLA	460 / 3 / 60 MIN.* AMPS	460 / 3 / 60 MIN.* BREAKER	CONNECTIONS (IN) LIQ.	CONNECTIONS (IN) SUCT.	RECEIVER (lbs) DIA.×HT.	RECEIVER (lbs) CAP.†	EST. SHIP WEIGHT (lbs)	DIMENSIONS PP. 22-23
KOZ021M4	ZS15K4E	13.6	6.4	23.4	30	9.3	6.4	18.0	20	—	—	—	—	1/2	7/8	6×18	12.8	274	(A)
KOZ026M4	ZS19K4E	16.4	6.4	26.9	35	9.7	6.4	18.5	20	—	—	—	—	1/2	7/8	6×18	12.8	283	(A)
KOZ031M4	ZS21K4E	16.4	4.7	25.2	30	11.1	4.7	18.6	20	5.7	2.2	9.3	10	1/2	1-1/8	6×24	17.6	498	(B)
KOZ036M4	ZS26K4E	20.7	4.7	30.6	40	13.6	4.7	21.7	25	7.1	2.2	11.1	15	1/2	1-1/8	6×24	17.6	501	(B)
KOZ041M4	ZS30K4E	26.8	4.7	38.2	50	15.0	4.7	23.5	30	8.2	2.2	12.5	15	1/2	1-1/8	6×24	17.6	518	(B)
KOZ051M4	ZS38K4E	31.8	4.7	44.5	60	21.4	4.7	31.5	40	9.6	2.2	14.2	15	1/2	1-1/8	6×30	22.4	548	(B)
KOZ061M4	ZS45K4E	—	—	—	—	23.9	4.7	34.6	45	9.3	2.2	13.8	15	5/8	1-3/8	8-5/8×32	49.0	607	(B)
KOZ076M4	ZS56K4E	—	—	—	—	30.9	4.7	43.3	50	16.2	2.2	22.5	30	5/8	1-3/8	8-5/8×32	49.0	737	(B)
KOZ101M4	ZS75K4E	—	—	—	—	44.9	9.4	65.5	80	21.7	4.4	31.5	40	5/8	1-3/8	10-3/4×28	64.1	928	(C)
KOZ131M4	ZS92K4E	—	—	—	—	54.4	9.4	77.4	100	25.8	4.4	36.7	45	7/8	1-5/8	10-3/4×28	64.1	968	(C)
KOZ151M4	ZS11M4E	—	—	—	—	60.0	9.4	84.4	110	28.2	4.4	39.7	50	7/8	1-5/8	14×24	89.9	1128	(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.

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

PERFORMANCE DATA with Copeland Scroll Medium Temperature R-22

UNIT MODEL	COMP. MODEL	AMB. °F	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
KOZ021M2	ZS15K4E	95	13.3	1.8	14.7	1.9	16.2	2	17.8	2.1	19.6	2.2	21.4	2.3
		105	12.6	2	13.9	2.1	15.3	2.2	16.9	2.2	18.5	2.3	20.2	2.5
KOZ 025M2	ZS19K4E	95	16.3	2.3	18.1	2.5	19.9	2.6	21.8	2.7	23.9	2.8	26.2	3
		105	15.4	2.6	17.0	2.7	18.8	2.8	20.6	2.9	22.6	3.0	24.6	3.2
KOZ 031M2	ZS21K4E	95	18.8	2.2	20.8	2.2	23.0	2.3	25.4	2.4	27.9	2.5	30.6	2.7
		105	17.8	2.3	19.7	2.4	21.8	2.5	24.0	2.6	26.4	2.7	29.0	2.9
KOZ 036M2	ZS26K4E	95	23.0	2.8	25.5	2.9	28.1	3.0	31.0	3.1	34.0	3.3	37.3	3.5
		105	21.9	3.0	24.1	3.1	26.6	3.3	29.3	3.4	32.2	3.5	35.2	3.7
KOZ 041M2	ZS30K4E	95	26.7	3.1	29.7	3.2	32.9	3.4	36.2	3.5	39.8	3.7	43.5	3.9
		105	25.4	3.4	28.1	3.5	31.0	3.6	34.2	3.8	37.6	4.0	41.2	4.1
KOZ 051M2	ZS38K4E	95	32.7	3.8	36.1	4.0	39.9	4.2	43.9	4.4	48.1	4.6	52.6	4.9
		105	31.0	4.2	34.2	4.4	37.7	4.5	41.4	4.8	45.4	5.0	49.7	5.2
KOZ 061M2	ZS45K4E	95	39.2	4.7	43.4	4.9	47.9	5.2	52.8	5.4	58.0	5.6	63.6	5.9
		105	37.1	5.2	41.0	5.4	45.3	5.6	49.9	5.9	54.8	6.1	60.0	6.4
KOZ 076M2	ZS56K4E	95	46.5	6.3	51.5	6.6	56.8	6.9	62.5	7.2	68.6	7.5	75.1	7.8
		105	44.0	6.8	48.6	7.1	53.6	7.4	59.0	7.7	64.7	8.1	70.7	8.4
KOZ 101M2	ZS75K4E	95	67.2	8.6	74.6	9.0	82.4	9.4	90.5	9.8	98.9	10.2	107.5	10.7
		105	62.9	9.4	70.0	9.7	77.7	10.1	85.7	10.5	94.1	11.0	102.8	11.4
KOZ 131M2	ZS92K4E	95	81.0	10.7	89.8	11.2	99.3	11.7	109.4	12.2	120.1	12.7	131.4	13.3
		105	76.5	11.6	84.7	12.1	93.5	12.6	102.9	13.2	112.9	13.8	123.4	14.4
KOZ 151M2	ZS11M4E	95	93.8	13.2	103.6	13.7	114.2	14.3	125.7	14.9	137.9	15.6	150.7	16.4
		105	89.6	14.4	98.1	14.9	107.6	15.5	118	16.1	129.1	16.8	141.1	17.5

SPECIFICATIONS

		240 / 1 / 60				208-240 / 3 / 60				460 / 3 / 60				CONNECTIONS (IN)		RECEIVER (lbs)		EST. SHIP WEIGHT	DIMENSIONS
UNIT MODEL	COMP MODEL	COMP. RLA	COND. FLA	MIN.* AMPS	MIN.* BREAKER	COMP. RLA	COND. FLA	MIN.* AMPS	MIN.* BREAKER	COMP. RLA	COND. FLA	MIN.* AMPS	MIN.* BREAKER	LIQ.	SUCT.	DIA.×HT.	CAP.†	(lbs)	PP. 22-23
KOZ021M2	ZS15K4E	13.6	6.4	23.4	30	9.3	6.4	18.0	20	—	—	—	—	1/2	7/8	6×18	12.8	274	(A)
KOZ026M2	ZS19K4E	16.4	6.4	26.9	35	9.7	6.4	18.5	20	—	—	—	—	1/2	7/8	6×18	12.8	283	(A)
KOZ031M2	ZS21K4E	16.4	4.7	25.2	30	11.1	4.7	18.6	20	5.7	2.2	9.3	10	1/2	1-1/8	6×24	17.6	498	(B)
KOZ036M2	ZS26K4E	20.7	4.7	30.6	40	13.6	4.7	21.7	25	7.1	2.2	11.1	15	1/2	1-1/8	6×24	17.6	501	(B)
KOZ041M2	ZS30K4E	26.8	4.7	38.2	50	15.0	4.7	23.5	30	8.2	2.2	12.5	15	1/2	1-1/8	6×24	17.6	518	(B)
KOZ051M2	ZS38K4E	31.8	4.7	44.5	60	21.4	4.7	31.5	40	9.6	2.2	14.2	15	1/2	1-1/8	6×30	22.4	548	(B)
KOZ061M2	ZS45K4E	—	—	—	—	23.9	4.7	34.6	45	9.3	2.2	13.8	15	5/8	1-3/8	8-5/8×32	49.0	607	(B)
KOZ076M2	ZS56K4E	—	—	—	—	30.9	4.7	43.3	55	16.2	2.2	22.5	30	5/8	1-3/8	8-5/8×32	49.0	737	(B)
KOZ101M2	ZS75K4E	—	—	—	—	44.9	9.4	65.5	80	21.7	4.4	31.5	40	5/8	1-3/8	10-3/4×28	64.1	928	(C)
KOZ131M2	ZS92K4E	—	—	—	—	54.4	9.4	77.4	100	25.8	4.4	36.7	45	7/8	1-5/8	10-3/4×28	64.1	968	(C)
KOZ151M2	ZS11M4E	—	—	—	—	60.0	9.4	84.4	110	28.2	4.4	39.7	50	7/8	1-5/8	14×24	89.9	1128	(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.

PERFORMANCE DATA with Bitzer Compressors 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
KOB030L4	2U-3.2Y	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	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	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	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	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	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	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	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-20.0Y	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

UNIT MODEL	COMP. MODEL	208-230/3/60 COMP. RLA	208-230/3/60 COND. FLA	208-230/3/60 MIN.* AMPS	208-230/3/60 MIN.* BREAKER	460/3/60 COMP. RLA	460/3/60 COND. FLA	460/3/60 MIN.* AMPS	460/3/60 MIN.* BREAKER	CONNECTIONS (IN) LIQ. OD	CONNECTIONS (IN) SUCT. OD	RECEIVER DIA.×HEIGHT	(LB) CAP.†	EST. SHIP WEIGHT (LB)	DIMENSIONS, PP. 22-23
		16.8	4.7	25.7	30	8.3	2.2	12.6	15	1/2	1-1/8	6×23	17.5	490	(B)
		19.5	4.7	29.1	35	9.6	2.2	14.2	15	1/2	1-1/8	6×23	17.5	524	(B)
		24.8	4.7	35.7	45	12.4	2.2	17.7	20	1/2	1-1/8	6×30	22.5	559	(B)
		26.0	4.7	37.2	50	13.0	2.2	18.5	20	5/8	1-3/8	8-5/8×32	49.0	617	(B)
		31.0	9.4	43.5		15.5	4.4	21.6			1-3/8	8-5/8×32	49.0	909	
		38.0	9.4	56.9		19.0	4.4	28.2			1-3/8	8-5/8×32	49.0	1013	
		44.2	9.4	64.7		22.1	4.4	32.0			1-3/8	10-3/4×28	64.1	1055	
		51.4	9.4	73.7		25.7	4.4	36.5			1-3/8	10-3/4×28	64.1	1113	
		64.0	9.4	89.4		32.0	4.4	44.4			1-5/8	14×24	89.9	1143	

†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×1.02.

PERFORMANCE DATA with Bitzer Compressors Low Temperature R-22

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
KOB030L2	2U-3.2Y	095	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	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	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	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	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	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	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	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	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	COMP. MODEL	208-230/3/60 COMP. RLA	208-230/3/60 COND. FLA	208-230/3/60 MIN.* AMPS	208-230/3/60 MIN.* BREAKER	460/3/60 COMP. RLA	460/3/60 COND. FLA	460/3/60 MIN.* AMPS	460/3/60 MIN.* BREAKER	CONNECTIONS (IN) LIQ. OD	CONNECTIONS (IN) SUCT. OD	RECEIVER DIA.×HEIGHT	RECEIVER (LB) CAP.†	EST. SHIP WEIGHT (LB)	DIMENSIONS, PP. 22-23
KOB030L2	2U-3.2Y	16.8	4.7	25.7	30	8.3	2.2	12.6	15	1/2	1-1/8	6×23	19.7	490	(B)
KOB040L2	2Q-4.2Y	19.5	4.7	29.1	35	9.6	2.2	14.2	15	1/2	1-1/8	6×23	19.7	524	(B)
KOB050L2	2N-5.2Y	24.8	4.7	35.7	45	12.4	2.2	17.7	20	1/2	1-1/8	6×30	25.3	559	(B)
KOB060L2	4V-6.2Y	26.0	4.7	37.2	50	13.0	2.2	18.5	20	5/8	1-3/8	8-5/8×32	55.0	617	(B)
KOB080L2	4T-8.2Y	31.0	4.7	43.5	50	15.5	2.2	21.6	25	5/8	1-3/8	8-5/8×32	55.0	621	(B)
KOB090L2	4P-10.2Y	38.0	9.4	56.9	70	19.0	4.4	28.2	35	5/8	1-3/8	8-5/8×32	55.0	1013	(C)
KOB100L2	4N-12.2Y	44.2	9.4	64.7	80	22.1	4.4	32.0	40	7/8	1-3/8	10-3/4×28	72.0	1055	(C)
KOB150L2	4H-15.2Y	51.4	9.4	73.7	90	25.7	4.4	36.5	45	7/8	1-3/8	10-3/4×28	72.0	1113	(C)
KOB200L2	4G-20.2Y	64.0	9.4	89.4	110	32.0	4.4	44.4	60	7/8	1-5/8	14×24	101.0	1143	(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.

PERFORMANCE DATA with Bitzer Compressors Medium Temperature R-404A

UNIT MODEL	COMP. MODEL	0°F SST		5°F SST		10°F SST		15°F SST		20°F SST		25°F SST		30°F SST		35°F SST	
AMB. °F		MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW
KOB030M4	2EL-3.2Y																
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																
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																
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																
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
KOB080M4	2N-7.2Y																
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																
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																
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																
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																
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

		208-230/3/60				460/3/60				CONNECTIONS (IN)		RECEIVER	(LB)	EST. SHIP WEIGHT	DIMEN-SIONS,
UNIT MODEL	COMP. MODEL	COMP. RLA	COND. FLA	MIN.* AMPS	MIN.* BREAKER	COMP. RLA	COND. FLA	MIN.* AMPS	MIN.* BREAKER	LIQ. OD	SUCT. OD	DIA.×HEIGHT	CAP.†	(LB)	PP. 22-23
KOB030M4	2EL-3.2Y	15.2	4.7	23.7	30	7.5	2.2	11.6	15	1/2	1-1/8	6×23	17.5	518	(B)
KOB050M4	2Q-4.2Y	19.5	4.7	29.1	35	9.6	2.2	14.2	15	1/2	1-1/8	6×23	17.5	524	(B)
KOB051M4	2U-5.2Y	26.4	4.7	37.7	50	13.0	2.2	18.5	20	1/2	1-1/8	6×30	22.5	557	(B)
KOB075M4	2CL-6.2Y	29.6	4.7	41.7	50	14.8	2.2	20.7	25	5/8	1-3/8	8-5/8×32	49.0	679	(B)
KOB080M4	2N-7.2Y	31.0	4.7	43.5	50	15.5	2.2	21.6	25	5/8	1-3/8	8-5/8×32	49.0	716	(B)
KOB090M4	4V-10.2Y	42.8	9.4	62.9	80	21.4	4.4	31.2	40	5/8	1-3/8	8-5/8×32	49.0	1020	(C)
KOB100M4	4T-12.2Y	47.1	9.4	68.3	90	23.5	4.4	33.8	45	5/8	1-5/8	10-3/4×28	64.1	1056	(C)
KOB120M4	4P-15.2Y	54.0	9.4	76.9	100	27.0	4.4	38.2	50	7/8	2-1/8	14×24	89.9	1214	(C)
KOB150M4	4N-20.2Y	64.0	9.4	89.4	110	32.0	4.4	44.4	60	7/8	2-1/8	14×24	89.9	1234	(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.

NOTE: May also be used with R-507. For capacity, multiply by 1.03, KW×1.02.

KOB Series Air-Cooled Condensing Units

PERFORMANCE DATA with Bitzer Compressors High Temperature R-22

UNIT MODEL	COMP. MODEL											
AMB. °F	15°F SST		20°F SST		25°F SST		30°F SST		35°F SST		40°F SST	
	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW
KOB030H2	2EL-3.2Y											
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											
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											
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											
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											
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											
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											
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											
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											
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

		208-230/3/60				460/3/60				CONNECTIONS (IN)		RECEIVER	(LB)	EST. SHIP WEIGHT	DIMEN-SIONS,
UNIT MODEL	COMP. MODEL	COMP. RLA	COND. FLA	MIN.* AMPS	MIN.* BREAKER	COMP. RLA	COND. FLA	MIN.* AMPS	MIN.* BREAKER	LIQ. OD	SUCT. OD	DIA.×HEIGHT	CAP.†	(LB)	PP. 22-23
		15.2	4.7	23.7	30	7.5	2.2	11.6	15	1/2	1-1/8	6×23	19.7	518	(B)
		19.5	4.7	29.1	35	9.6	2.2	14.2	15	1/2	1-1/8	6×23	19.7	524	(B)
		26.4	4.7	37.7	50	13.0	2.2	18.5	20	1/2	1-1/8	6×30	25.3	558	(B)
		29.6	4.7	41.7	50	14.8	2.2	20.7	25	5/8	1-3/8	8-5/8×32	55.0	679	(B)
		31.0	4.7	48.2	60	15.5	2.2	23.8	30	5/8	1-3/8	8-5/8×32	55.0	716	(B)
		42.8	9.4	62.9		21.4	4.4	31.2		5/8	1-3/8	8-5/8×32	55.0	1020	
		47.1	9.4	68.3		23.5	4.4	33.8		5/8	1-5/8	10-3/4×28	72.0	1056	
		54.0	9.4	76.9		27.0	4.4	38.2		7/8	2-1/8	14×24	101.0	1214	
		64.0	9.4	89.4		32.0	4.4	44.4		7/8	2-1/8	14×24	101.0	1234	

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

PERFORMANCE DATA with Copeland Discus Low Temperature R-404A

UNIT MODEL	COMP. MODEL																	
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
KOD030L4	2DF3-030E																	
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																	
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																	
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																	
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																	
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																	
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																	
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	4DL-150E																	
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																	
5	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

		208-230/1/60											
						CONNECTIONS (IN)		RECEIVER	(LB)	EST. SHIP	DIMEN-		
UNIT MODEL	COMP. MODEL	COMP. RLA	COND. FLA	MIN.* AMPS	MIN.* BREAKER	LIQ. OD	SUCT. OD	DIA.×HEIGHT	CAP.†	WEIGHT (LB)	SIONS, PAGE 22		
KOD030L4	2DF3-030E	25.8	4.7	37.0	37	1/2	1-1/8	6×23	17.5	613	(B)		

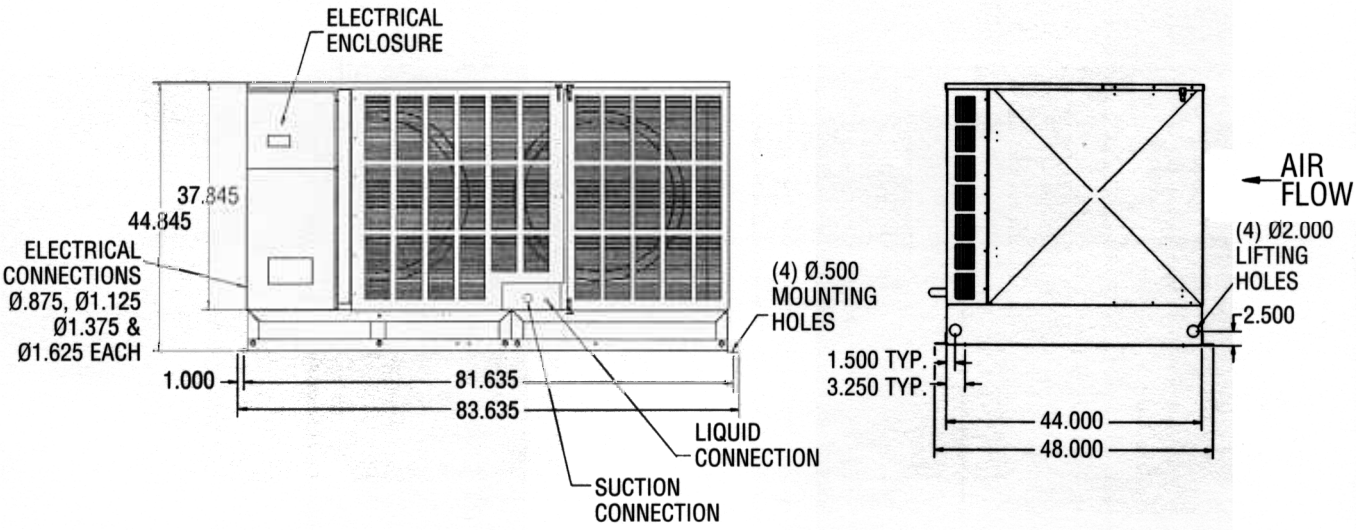
		208-230/3/60				460/3/60									
										CONNECTIONS (IN)		RECEIVER	(LB)	EST. SHIP	DIMEN-
UNIT MODEL	COMP. MODEL	COMP. RLA	COND. FLA	MIN.* AMPS	MIN.* BREAKER	COMP. RLA	COND. FLA	MIN.* AMPS	MIN.* BREAKER	LIQ. OD	SUCT. OD	DIA.×HEIGHT	CAP.†	WEIGHT (LB)	SIONS, PP. 22-23
KOD030L4	2DF3-030E	16.8	4.7	25.7	30	8.1	2.2	12.3	15	1/2	1-1/8	6×23	17.5	613	(B)
KOD040L4	2DL3-040E	26.3	4.7	37.6	50	10.2	2.2	15.0	20	1/2	1-1/8	6×23	17.5	613	(B)
KOD050L4	2DB3-060E	28.2	4.7	40.0	50	13.3	2.2	18.8	25	1/2	1-1/8	6×30	22.5	642	(B)
KOD060L4	3DA3A060E	30.3	4.7	42.6	50	13.7	2.2	19.3	25	5/8	1-3/8	8-5/8×32	49.0	726	(B)
KOD080L4	3DB3A075E	31.5	4.7	44.1	50	16.1	2.2	22.3	30	5/8	1-3/8	8-5/8×32	49.0	757	(B)
KOD090L4	3DF3A090E	39.0	9.4	58.2		16.9	4.4	25.5		5/8	1-3/8	8-5/8×32	49.0	1045	
KOD100L4	3DS3A100E	42.0	9.4	61.9		18.6	4.4	27.7		5/8	1-5/8	10-3/4×28	64.1	1102	
KOD150L4	4DL3-150E	52.6	9.4	75.2		26.3	4.4	37.3		7/8	2-1/8	14×24	89.9	1215	
KOD200L4	4DT3-220E	66.0	9.4	91.9		33.0	4.4	45.7		7/8	2-1/8	14×24	89.9	1223	

†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×1.02.

FIGURE C



Hussmann Limited Warranty

Hussmann Coil Products (HCP) makes no express or implied warranties as to merchantability or fitness for a particular purpose or use.

HCP Products, as manufactured by Hussmann Coil Products, hereinafter referred to as the manufacturer, are warranted to be free from defects in material and workmanship under normal use and service for a period of one (1) year after delivery to the original user, but in no case more than eighteen (18) months from date of manufacture. The manufacturer's obligation under this warranty shall be limited to repair or replacement of any part or parts returned to the manufacturer within said period, transportation charges prepaid, with instructions to be returned, charges collect, and which in the manufacturer's examination shall disclose to be inherently defective.

This warranty shall not apply to HCP Products which shall have been improperly installed or repaired, or altered in any way outside of the manufacturer's factory or been subject to misuse, negligence, or accident. Equipment or component parts such as valves, electric motors, electric heaters and electric accessories manufactured by others and used as the part of or in connection with HCP Products carry only the warranty of the manufacturer thereof.

The motor compressors furnished with HCP Products condensing units and HCP Products packages are subject to the terms of our standard warranties set forth above, except that motor compressor replacements or exchanges shall be made to the nearest compressor manufacturer's authorized wholesaler (not at HCP Products factory) and no freight shall be allowed for transportation in either direction between the user and said wholesaler. The replacement motor compressors shall be identical to the model of the motor compressor being replaced. Additional charges which may be incurred through the substitution of other than identical replacements are not covered by this warranty.

Said warranty shall be void if equipment has been subjected to negligence, abuse, misuse, low voltage, corrosive chemicals, excessive pressure, accident, outward damage, or hidden damage while in transit, or if operated contrary to the manufacturer's or HCP Products recommendations, or if the serial number has been altered, defaced or removed, nor shall HCP Products be liable for damages when unauthorized service is performed, or parts other than genuine HCP Products parts are used for repairs.

Limitation of Liability

All remedies with respect to any product or part sold by HCP Products shall be limited exclusively to the right to replacement or repair F.O.B. Addison, Illinois, as provided. In no event shall HCP Products be liable for consequential or special damages of any nature which may arise in connection with such product or part. The term "consequential" is expressly intended, but not limited to mean those damages that are not immediately foreseeable to HCP Products, such as damage claims involving labor charges for removal or installation of said product or part, loss of refrigerant, loss of stored product, lost sales, lost orders, lost profits, lost income, either gross or net, all allegedly attributable either directly or indirectly to failure or non-performance of HCP Products equipment.