

KIRLOSKAR COPELAND LIMITED

AIR CONDITIONING COMPRESSORS





C O N T E N T S

Product Description	2
Features & Performance Story	3
Performance Nominals - 50 Hz	
- CK3 & CR6 Series	5
Performance Nominals - 60 Hz	
- CK3 Series	7
Mechanical Specifications	8
Electrical Components for Single phase compressors	9
Electrical Specifications	10
Full range Compressor for air conditioning	
Single phase & Three phase compressor	11
Dimensional Drawings	13
50Hertz Performance Data	19
60Hertz Performance Data	31
CR6 & CK3 series compressor Nomenclature	33
KC series compressor Nomenclature	34

PRODUCT DESCRIPTION

No matter how diverse the demands of air conditioning application around the world may be, they share a common need: quietest & continues - operation. That's why Kirloskar Copeland's engineering & manufacturing teams have stretched the boundaries of compressor design & production to create the quietest, most reliable full range reciprocating compressor, available today.

Taming down the Middle East heat wave is the best test any compressor can take. Which is why, the Kirloskar Copeland's compressors are performing with fail- safe reliability in Middle east, Asian, African & European markets. So you can be sure that when you are installing the Kirloskar Copeland compressor, you are sharing the world's coolest secret.



Manufacturing Plant



Shop floor



Compressor Welding



Compressor Assembly

FEATURES

- High Efficiency
- Quietest Operation
- Low Sound & Discharge Pulse
- Single & Three Phase Models Available
- Internal Muffler & Suspension
- Wide Voltage Range
- Internal Motor Protection
- Moulded Plug Terminal Connector Option
- Tropicalized
- Internal Pressure Relief Valve
- Convenient Arrangement of Fittings, Terminal Area, & Mounting Feet

PERFORMANCE STORY

Enhanced Technology: Built on proven success of Kirloskar Copeland's various design platforms. The air conditioning compressor series has been optimized for the next decade. This advanced reciprocating technology will meet the demands of all worldwide markets well into the future.

Lower Sound, Superior Reliability: The air conditioning compressor series is engineered for lower compressor sound & a reduced discharge pulse to decrease the system sound & vibration. It also offers industry -leading levels of reliability, especially at higher ambient temperatures, a critical factor in warmer global climates.

Exceptional Value & Flexibility: Kirloskar Copeland has designed its new compressor for easy system drop - in for upgrades or replacements. Customers have the option to specify preferred features, such as optional molded plug, mountings those reduces assembly time. The result is greater flexibility & the value you expect from Kirloskar Copeland.

COMPRESSOR
BY
KIRLOSKAR
COPELAND
just cool it!



50 HERTZ		PERFORMANCE NOMINALS					R22		
SINGLE PHASE					230 - 1 - 50 (PF1), 220-1-50 (PFZ) TEST VOLTAGE				
MODELS	RATING CONDITION	CAPACITY			MOTOR WATTS	AMPERES	ENERGY EFFICIENCY RATING		
		BTU/HOUR	KCAL/HOUR	WATTS			BTU/H MOTOR WATTS	KCAL/H MOTOR WATTS	WATTS/MOTOR WATTS
CK22K3-PF1	A	18340	4622	5375	1925	8.8	9.5	2.4	2.8
	B	17875	4505	5239	1925	8.8	9.3	2.3	2.7
CK24K3-PFZ	A	20350	5128	5964	2100	9.7	9.7	2.4	2.8
	B	19800	4990	5803	2100	9.7	9.4	2.4	2.8
CK30K3-PFZ	A	25150	6338	7371	2725	12	9.2	2.3	2.7
	B	24500	6172	7180	2725	12	9.0	2.3	2.6
CK32K3-PFZ	A	27200	6854	7972	2950	14	9.2	2.3	2.7
	B	26500	6678	7766	2950	14	9.0	2.3	2.6
CR22K6M-PF1	A	19000	4788	5568	1750	7.8	10.9	2.7	3.2
	B	18500	4662	5422	1750	7.8	10.6	2.7	3.1
CR30K6M-PF1	A	25000	6300	7327	2350	11	10.6	2.7	3.1
	B	24250	6111	7107	2350	11	10.3	2.6	3.0
CR36K6-PFZ	A	30100	7585	8821	2720	13.6	11.1	2.8	3.2
	B	29300	7383	8587	2720	13.6	10.8	2.7	3.2
CR42K6-PFZ	A	36100	9097	10580	3240	15.4	11.1	2.8	3.3
	B	35200	8870	10316	3240	15.4	10.9	2.7	3.2

50 HERTZ		PERFORMANCE NOMINALS					R22		
THREE PHASE					400 - 3 - 50 TEST VOLTAGE				
MODELS	RATING CONDITION	CAPACITY			MOTOR WATTS	AMPERES	ENERGY EFFICIENCY RATING		
		BTU/HOUR	KCAL/HOUR	WATTS			BTU/H MOTOR WATTS	KCAL/H MOTOR WATTS	WATTS/MOTOR WATTS
CR22K6M-TFM*	A	18250	4599	5349	1800	3.1	10.1	2.5	2.9
	B	17700	4460	5187	1800	3.1	9.8	2.4	2.8
CR30K6M-TFM*	A	25000	6300	7327	2350	4.3	10.6	2.7	3.1
	B	24250	6110	7107	2350	4.3	10.3	2.6	3.0
CR36K6-TF5	A	29900	7535	8763	2680	4.9	11.2	2.8	3.3
	B	29100	7335	8528	2680	4.9	10.9	2.7	3.2
CR42K6-TF5 CR42K6-TFM	A	35100	8845	10287	3300	6.1	10.6	2.7	3.1
	B	34200	8618	10023	3300	6.1	10.4	2.6	3.0

* Under Development.

RATING CONDITION	RATING STANDARD	EVAPORATING TEMPERATURE °F/°C	CONDENSING TEMPERATURE °F/°C	AMBIENT TEMPERATURE °F/°C	LIQUID TEMPERATURE °F/°C	RETURN GAS TEMPERATURE °F/°C
A	ASRE/T	45	130	95	115	95
		7.2	54.4	35	46.1	35
B	ARI	45	130	95	115	65
		7.2	54.4	35	46.1	18.3

50 HERTZ		PERFORMANCE NOMINALS					R22		
SINGLE PHASE					230 - 1 - 50 TEST VOLTAGE				
MODELS	RATING CONDITION	CAPACITY			MOTOR WATTS	AMPERES	ENERGY EFFICIENCY RATING		
		BTU/ HOUR	KCAL/ HOUR	WATTS			BTU/H MOTOR WATTS	KCAL/H MOTOR WATTS	WATTS/ MOTOR WATTS
KCJ 511 HAE	A	9350	2356	2740	1020	4.7	9.2	2.3	2.7
	B	9100	2293	2667	1020	4.7	8.9	2.2	2.6
KCJ 515 HAE	A	12800	3225	3751	1420	6.4	9.0	2.3	2.6
	B	12470	3141	3655	1420	6.4	8.8	2.2	2.5
KCH 522 HAE	A	18340	4620	5375	2000	9.1	9.2	2.3	2.7
	B	17850	4497	5231	2000	9.1	8.9	2.2	2.6
KCA 522 HAE*	A	18500	4662	5417	1880	8.6	9.8	2.5	2.9
	B	—	—	—	—	—	—	—	—
KCH 523 HAE	A	19200	4838	5627	1780	8.2	10.8	2.7	3.2
	B	18800	4737	5510	1780	8.2	10.6	2.7	3.1
KCH 524 HAE	A	20000	5040	5861	2290	10	8.7	2.2	2.6
	B	19500	4914	5715	2290	10	8.5	2.1	2.5
KCH 528 HAE	A	24000	6048	7034	2800	13.6	8.6	2.2	2.5
	B	23300	5872	6829	2800	13.6	8.3	2.1	2.4

50 HERTZ		PERFORMANCE NOMINALS					R22		
THREE PHASE					400 - 3 - 50 TEST VOLTAGE				
MODELS	RATING CONDITION	CAPACITY			MOTOR WATTS	AMPERES	ENERGY EFFICIENCY RATING		
		BTU/ HOUR	KCAL/ HOUR	WATTS			BTU/H MOTOR WATTS	KCAL/H MOTOR WATTS	WATTS/ MOTOR WATTS
KCH 522 HAE	A	18340	4620	5375	1850	3	9.9	2.5	2.9
	B	17850	4497	5231	1850	3	9.7	2.4	2.8
KCH 528 HAE	A	24000	6048	7034	2500	4	9.6	2.4	2.8
	B	23300	5872	6829	2500	4	9.3	2.3	2.7
KCG 554 HAE	A	45000	11340	13188	4450	7.2	10.1	2.6	3.0
	B	43875	11057	12858	4450	7.2	9.9	2.5	2.9
KCG 562 HAE	A	52000	13100	15240	5250	8.5	9.9	2.5	2.9
	B	50700	12775	14859	5250	8.5	9.7	2.4	2.8
KCG 572 HAE	A	60000	15120	17584	6100	10.2	9.8	2.5	2.9
	B	58320	14697	17092	6100	10.2	9.6	2.4	2.8

RATING CONDITION	RATING STANDARD	EVAPORATING TEMPERATURE °F/°C	CONDENSING TEMPERATURE °F/°C	AMBIENT TEMPERATURE °F/°C	LIQUID TEMPERATURE °F/°C	RETURN GAS TEMPERATURE °F/°C
A	ASRE/T	45	130	95	115	95
		7.2	54.4	35	46.1	35
B	ARI	45	130	95	115	65
		7.2	54.4	35	46.1	18.3

* Under Development.

60 HERTZ		PERFORMANCE NOMINALS					R22		
SINGLE PHASE					230 -1-60 TEST VOLTAGE				
MODELS	RATING CONDITION	CAPACITY			MOTOR WATTS	AMPERES	ENERGY EFFICIENCY RATING		
		BTU/ HOUR	KCAL/ HOUR	WATTS			BTU/H MOTOR WATTS	KCAL/H MOTOR WATTS	WATTS/ MOTOR WATTS
CK20K3-PFV	A	–	–	–	–	–	–	–	–
	B	20000	5040	5861	2140	9.6	9.4	2.4	2.7
CK24K3-PFV	A	–	–	–	–	–	–	–	–
	B	23500	5922	6887	2500	11	9.4	2.4	2.8
CK27K3-PFV	A	–	–	–	–	–	–	–	–
	B	26500	6678	7766	2900	12.9	9.1	2.3	2.7
CK30K3-PFV*	A	–	–	–	–	–	–	–	–
	B	29500	7434	8646	3225	14.5	9.1	2.3	2.7

* Under development

RATING CONDITION	RATING STANDARD	EVAPORATING TEMPERATURE °F/°C	CONDENSING TEMPERATURE °F/°C	AMBIENT TEMPERATURE °F/°C	LIQUID TEMPERATURE °F/°C	RETURN GAS TEMPERATURE °F/°C
A	ASRE/T	45	130	95	115	95
		7.2	54.4	35	46.1	35
B	ARI	45	130	95	115	65
		7.2	54.4	35	46.1	18.3

Compress Cooling :

KCJ Series - Fan, 350 CFM
 KCH , CR6, CK3 Series - Fan, 400 CFM
 KCG Series - Fan, 420 CFM

MECHANICAL SPECIFICATIONS

MODEL	NOMINAL HP KW	IN ³ CM ³ CUBIC INCHES PER REVOLUTION CUBIC CENTIMETERS PER REVOLUTION	CFH M ³ /HR CUBIC FEET PER HOUR CUBIC METERS PER HOUR	COMPRESSOR NET WEIGHT KILOGRAMS POUNDS
			50 HERTZ 2900 RPM	
CK20K3-PFV	2.36 1.76	2.399 39.32	241.62 6.84	28 61.6
CK22K3-PF1	2.12 1.58	2.490 40.8	250.71 7.10	28 61.6
CK24K3-PFV	2.68 2.00	2.701 44.26	271.97 7.70	28 61.6
CK24K3-PFZ	2.36 1.76	2.701 44.26	271.97 7.70	28 61.6
CK27K3-PFV	3.22 2.40	3.028 49.62	304.89 8.63	28 61.6
CK30K3-PFV	3.50 2.61	3.254 53.32	327.64 9.28	29 63.93
CK30K3-PFZ	3.22 2.40	3.254 53.32	327.64 9.28	28 61.6
CK32K3-PFZ	3.19 2.38	3.521 57.70	354.31 10.03	28 61.6
CR22K6M-PF1	1.88 1.40	2.490 40.8	250.71 7.10	29.8 65.6
CR22K6M-TFM *	2.05 1.53	2.490 40.8	250.71 7.10	— —
CR30K6M-PF1	2.63 1.96	3.140 51.45	316.15 8.95	33.4 73.63
CR30K6M-TFM *	2.76 2.06	3.140 51.45	316.15 8.95	30.0 66.1
CR36K6-PFZ	3.06 2.28	3.640 59.65	366.54 10.38	34.9 76.9
CR36K6-TF5	3.15 2.35	3.640 59.65	366.54 10.38	31 68.3
CR42K6-PFZ	3.67 2.74	4.399 72.08	442.98 12.54	34.9 76.9
CR42K6-TF5	3.89 2.90	4.399 72.09	442.98 12.54	32.7 72.1
KCJ 511 HAE	1.07 0.80	1.114 18.27	112.18 3.18	21.5 47.3
KCJ 515 HAE	1.54 1.15	1.581 25.92	159.78 4.52	22.6 49.82
KCH 522 HAE	2.14 1.60	2.430 39.82	244.69 6.93	31.3 66.6
KCA 522 HAE *	2.01 1.50	2.430 39.82	244.69 6.93	29 63.93
KCH 523 HAE	2.01 1.50	2.430 39.82	244.69 6.93	31.3 68.9
KCH 524 HAE	2.14 1.60	2.620 42.93	263.82 7.47	30.3 66.6
KCH 528 HAE	2.95 2.20	3.230 52.93	325.24 9.21	32.3 71.06
KCG 554 HAE	5.23 3.90	6.04 99.96	608.19 17.22	50.1 110.22
KCG 562 HAE	6.17 4.60	7.180 117.66	723.00 20.48	50.7 111.54
KCG 572 HAE	7.24 5.40	8.129 133.22	818.55 23.18	51.4 113.32

* Under development.

ELECTRICAL COMPONENTS FOR AIR CONDITIONING SINGLE PHASE COMPRESSORS

MODEL	MOTOR CIRCUIT	RUN CAPACITOR	START CAPACITOR	START RELAY
		µF	µF	
CK20K3-PFV	PSC / CSCR	25 / 370 VAC	120/150 *	3ARR3CT6W5 or AC85007* or RVA3AI3D
CK22K3-PF1	PSC / CSCR	36	120/150 *	AC85007* or RVA3AI3D
CK24K3-PFV	PSC / CSCR	35 / 370 VAC	120/150 *	3ARR3CT6W5 or AC85007* or RVA3AI3D
CK24K3-PFZ	PSC / CSCR	35 / 370 VAC	120/150 *	AC85007* or RVA3AI3D
CK27K3-PFV	PSC / CSCR	35 / 370 VAC	150-200*	3ARR3CT6W5 or AC85007* or RVA-3AI3D
CK30K3-PFV	PSC / CSCR	50 / 370 VAC	150-200*	AC85001M*
CK30K3-PFZ	PSC / CSCR	45/370 VAC	150/200 *	3ARR3CT6V5 or * AC85006 or RVA4L3D
CK32K3-PFZ	PSC / CSCR	45/370 VAC	150/200 *	3ARR3CT6V5 or * AC85006 or RVA4L3D
CR22K6M-PF1	PSC / CSCR	36	80/100 *	3ARR3CT3P5 or AC85004 or RVA3F6D*
CR30K6M-PF1	PSC / CSCR / PTCR [#]	45	150/200*	AC85001M*
CR36K6-PFZ	CSCR	40 / 370 VAC or 45 / 370 VAC	130-156/250 V-High Starting Torque 43-52/330 V-Low Starting Torque	3ARR3CT3P5 or RVA3F6D or AC85004
CR42K6-PFZ	CSCR	60/370 VAC or 65/370 VAC	189-227 / 330 V-High Starting Torque 64-77/330 V-Low Starting Torque	3ARR3CT24S5 or RVA-3AG6D or AC85005
KCJ 511 HAE	PSC / CSCR	25	80/100 *	LT85002 *
KCJ 515 HAE	PSC / CSCR	36	80/100 *	AC85001M *
KCH 522 HAE	PSC / CSCR	36	80/100 *	AC85001M *
KCA 522 HAE under developement	PSC / CSCR	36	80/100 *	AC85004 *
KCH 523 HAE	PSC / CSCR	36	80/100 *	AC85004 *
KCH 524 HAE	PSC / CSCR	36	80/100 *	AC85001M *
KCH 528 HAE	CSCR	36	120/150	AC85004

* These are optional accessories to be used for CSCR circuit.
 # PTCR Model No. PTCR 305C20A or PTH 491A04 AR470N500.

Note : All run capacitor should have rating 440 VAC and start capacitor 275 VAC surge, unless otherwise specified by Kirloskar Copeland Ltd.

- u All models have Internal Overload Protector.
- u All models have Internal Pressure Relief Valve except KCJ511HAE.

ELECTRICAL SPECIFICATIONS

MODEL	PFV		PF1		PFZ		TF5		TFM	
	RATED LOAD AMPS RLA	LOCKED ROTOR AMPS LRA	RATED LOAD AMPS RLA	LOCKED ROTOR AMPS LRA	RATED LOAD AMPS RLA	LOCKED ROTOR AMPS LRA	RATED LOAD AMPS RLA	LOCKED ROTOR AMPS LRA	RATED LOAD AMPS RLA	LOCKED ROTOR AMPS LRA
CK20K3	9.6	55								
CK22K3			8.80	51						
CK24K3	11	56								
CK24K3					9.7	51				
CK27K3	12.9	65								
CK30K3	14.5	65								
CK30K3	12	58								
CK32K3	14	58								
CR22K6M			7.80	54						
CR22K6M *									3.1	17
CR30K6M			11.00	72						
CR30K6M *									4.3	23
CR36K6							4.9	41		
CR36K6					13.6	85				
CR42K6							6.1	45	6.1	45
CR42K6					15.4	104				

* Under development.

ELECTRICAL SPECIFICATIONS

MODEL	B4		C4		D5	
	RATED LOAD AMPS RLA	LOCKED ROTOR AMPS LRA	RATED LOAD AMPS RLA	LOCKED ROTOR AMPS LRA	RATED LOAD AMPS RLA	LOCKED ROTOR AMPS LRA
KCJ 511 HAE	4.7	25				
KCJ 515 HAE	6.4	30				
KCA 522 HAE *	8.6	54				
KCG 554 HAE					7.2	44
KCG 562 HAE					8.5	49
KCG 572 HAE					10.2	55
KCH 522 HAE					3	17
KCH 522 HAE	9.1	45				
KCH 523 HAE	8.2	44				
KCH 524 HAE	10	45				
KCH 528 HAE					4	22
KCH 528 HAE			13.6	48		

**FULL RANGE COMPRESSORS "STANDARD" BILLS OF MATERIAL
 FOR THE INTERNATIONAL MARKET**

The bill of material includes features as shown by the X

MODEL	BOM	FOUR LEGS 7.5" x 7.5" (190 x 190 mm)	FOUR LEGS 4.8" x 8" (122 x 203 mm)	THREE LEGS 6.12" x 8" (155 x 203 mm)	THREE LEGS 8.44" x 9.75" (214 x 248 mm)	MOULDED PLUG	SERVICE VALVE
CK20K3-PFV	101	x					
	201		x				
	601				x		
CK22K3-PF1	121	x					
	221		x				
	621				x		
CK24K3-PFV	101	x					
	201		x				
	601				x		
CK24K3-PFZ	101	x					
	201		x				
	601				x		
CK27K3-PFV	101	x					
	201		x				
	601				x		
CK30K3-PFV	101	x					
	201		x				
	601				x		
CK30K3-PFZ	101	x					
	201		x				
	601				x		
CK32K3-PFZ	101	x					
	201		x				
	601				x		
CR22K6M-PF1	171	x					
	621				x		
CR22K6M-TFM	101	x					
	601				x		
CR30K6M-PF1	121	x					
	621				x		
CR30K6M-TFM	101	x					
	601				x		
CR36K6-TF5	121	x					
CR36K6-PFZ	101	x					
CR42K6-TF5	121	x					
CR42K6-TFM	101	x					
CR42K6-PFZ	101	x					

**FULL RANGE COMPRESSORS "STANDARD" BILLS OF MATERIAL
 FOR THE INTERNATIONAL MARKET**

The bill of material includes features as shown by the X

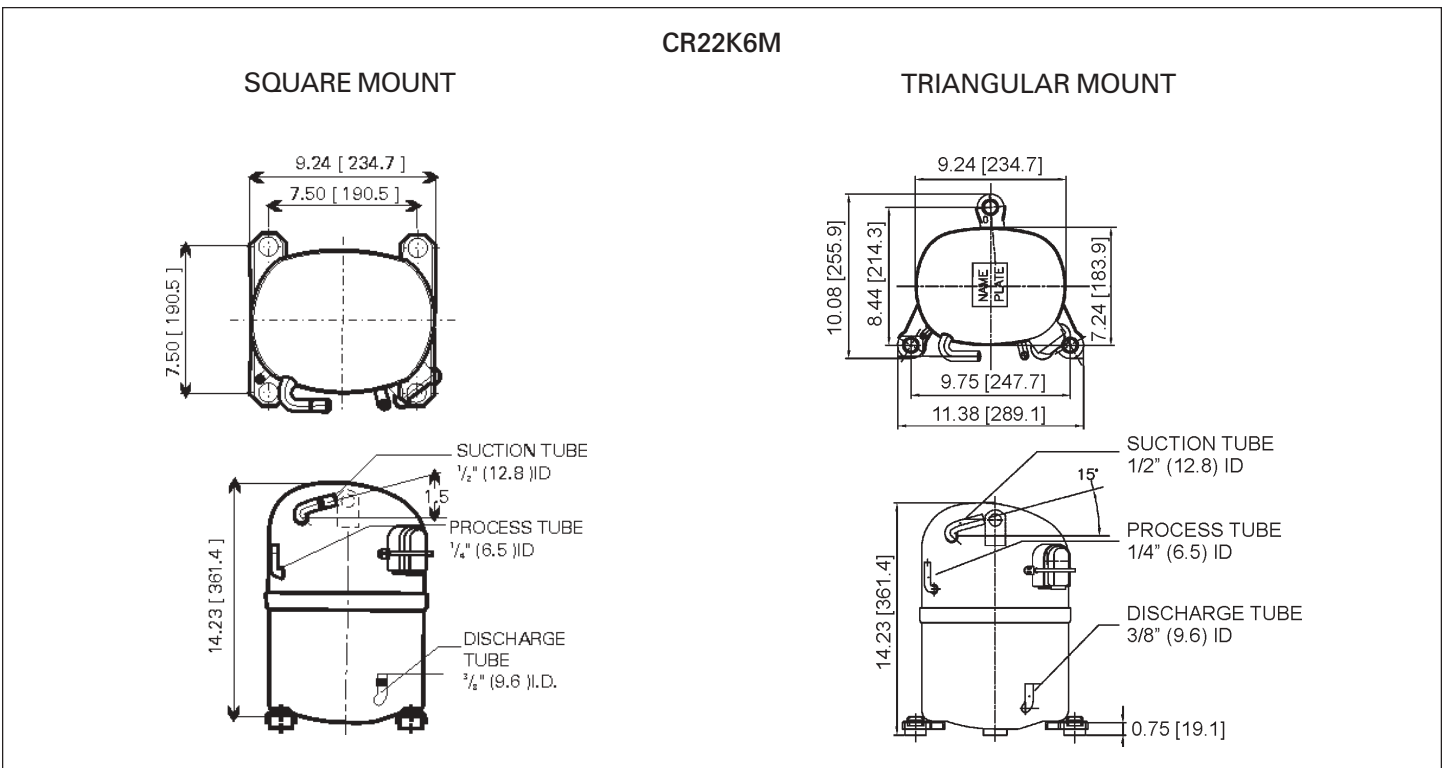
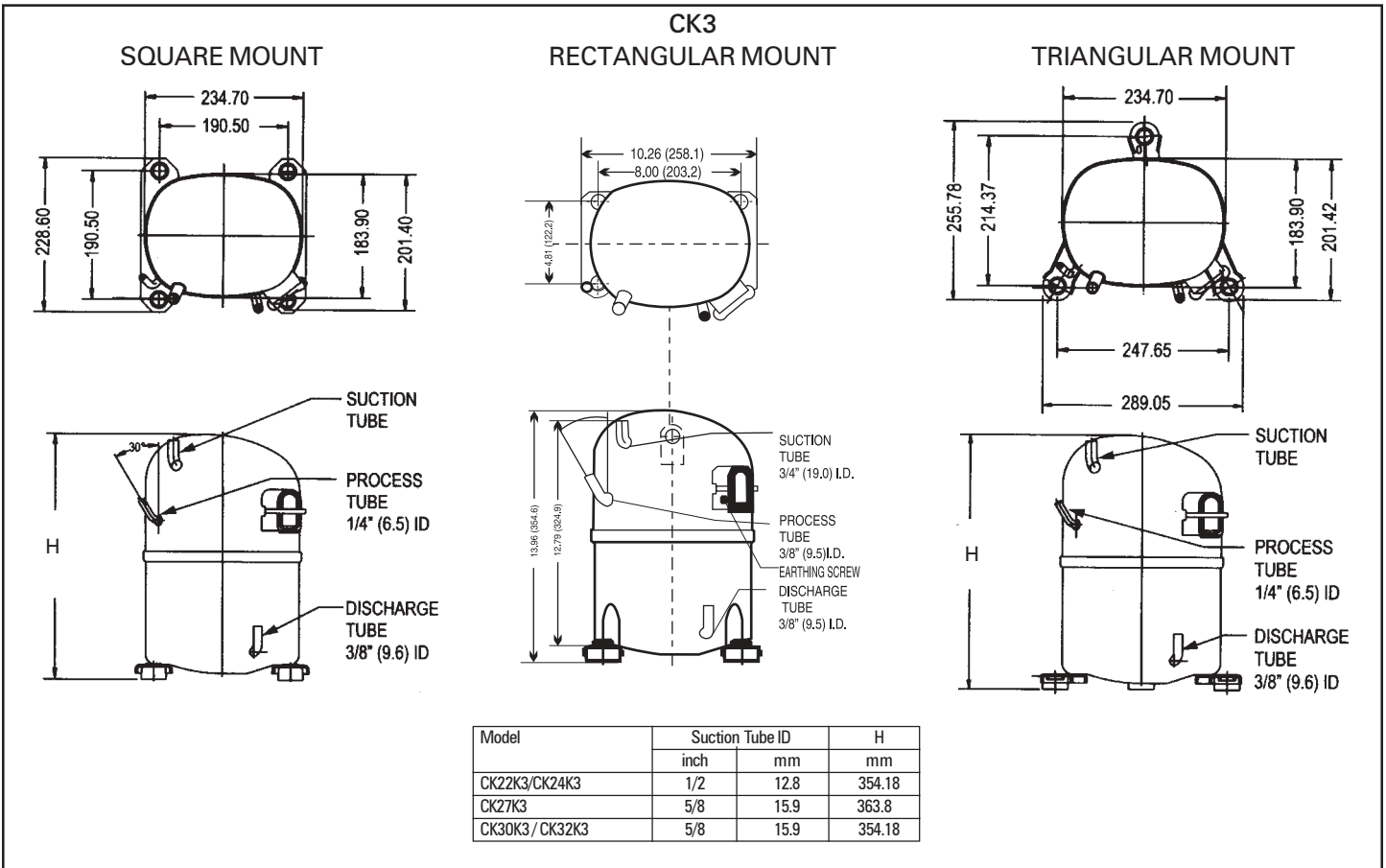
MODEL	BOM	FOUR LEGS 7.5" x 7.5" (190 x 190 mm)	FOUR LEGS 4.8" x 8" (122 x 203 mm)	THREE LEGS 6.12" x 8" (155 x 203 mm)	THREE LEGS 8.44" x 9.75" (214 x 248 mm)	MOULDED PLUG	SERVICE VALVE
KCJ 511 HAE	B421		x				
	B441			x			
KCJ 515 HAE	B421		x				
	B441			x			
	B423		x			x	
	B443			x		x	
KCH 522 HAE	D511	x					
	D551				x		
KCH 522 HAE	B411	x					
	B451				x		
KCA 522 HAE	B412	X					
KCH 523 HAE	B411	x					
	B451				x		
KCH 524 HAE	B411	x					
	B451				x		
KCH 528 HAE	D511	x					
	D551				x		
KCH 528 HAE	C411	x					
	C451				x		
KCG 554 HAE	D513	x					x
	D511	x					
KCG 562 HAE	D513	x					x
	D511	x					
KCG 572 HAE	D513	x					x
	D511	x					

BILL OF MATERIAL PROVISIONS

Please refer to the bill of material shown on the previous page to view our standard offers of compressor selections. In addition to the marked features, each compressor will include the following :

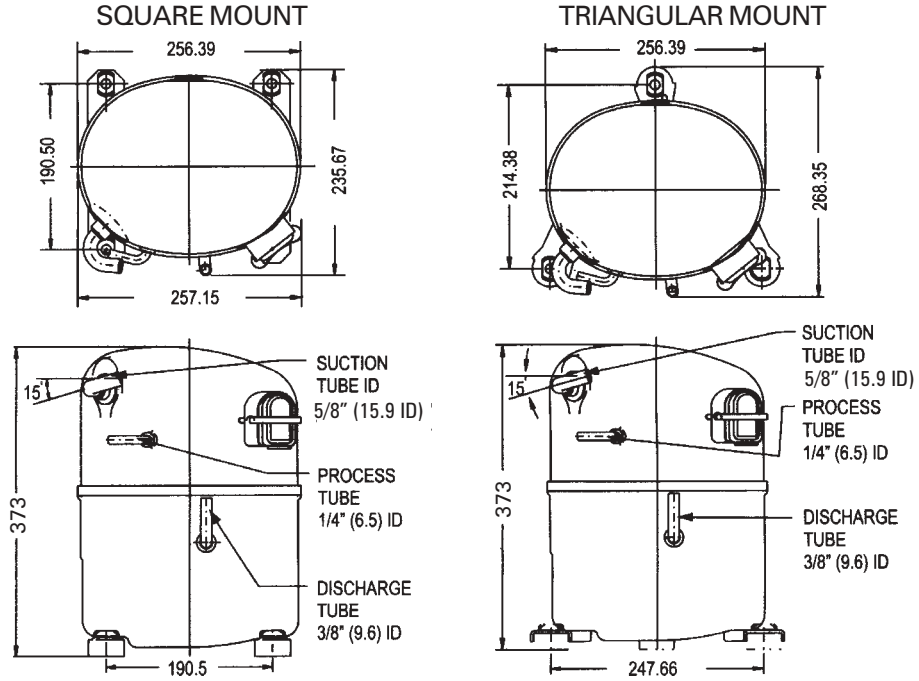
- | Terminal box and cover
- | Internal Line Break Protector.
- | Internal Pressure Relief Valve except KCJ511HAE
- | Grounding tab located in the terminal box.
- | Mineral Oil
 Oil Charge :
 KCJ 511 HAE 30.6 Ounces (0.905 litres)
 KCJ 515 HAE 30.93 Ounces (0.915 litres)
 KCH & CK3 44.97 Ounces (1.330 litres)
 KCG 76.08 Ounces (2.250 litres)
 CR6 except 44.97 Ounces (1.330 litres)
 CR30K6M-PF1 55.12 Ounces (1.630 litres)

DIMENSIONAL DRAWINGS

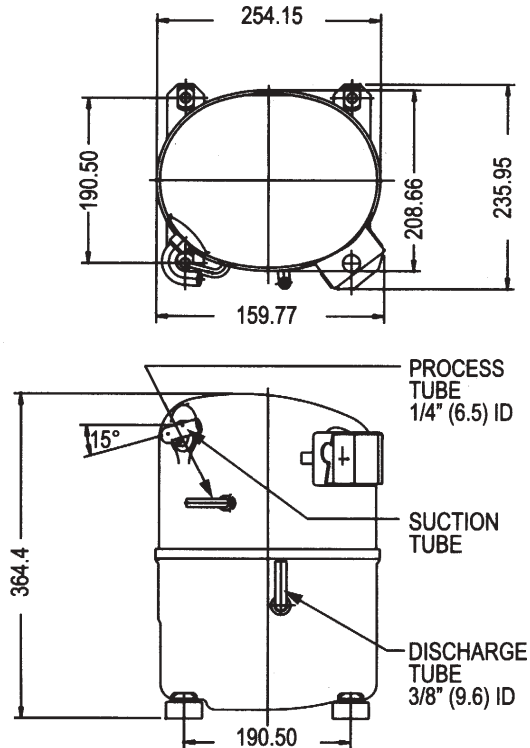


DIMENSIONAL DRAWINGS

CR30K6M



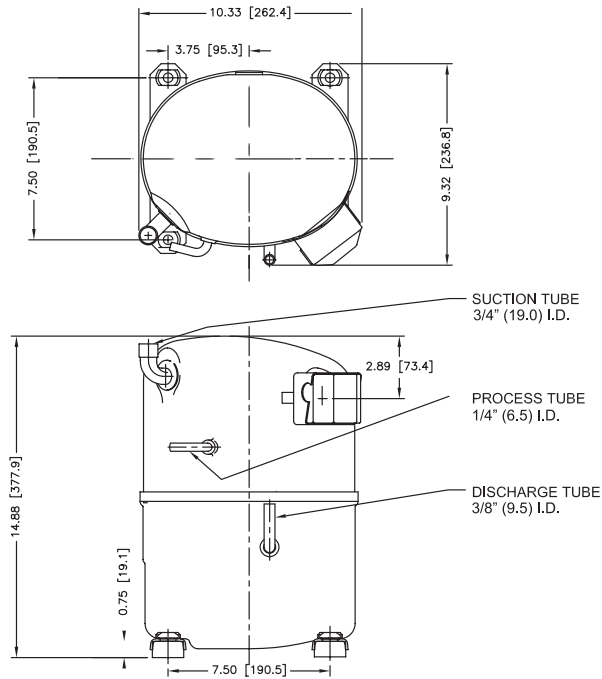
CR36K6M
SQUARE MOUNT



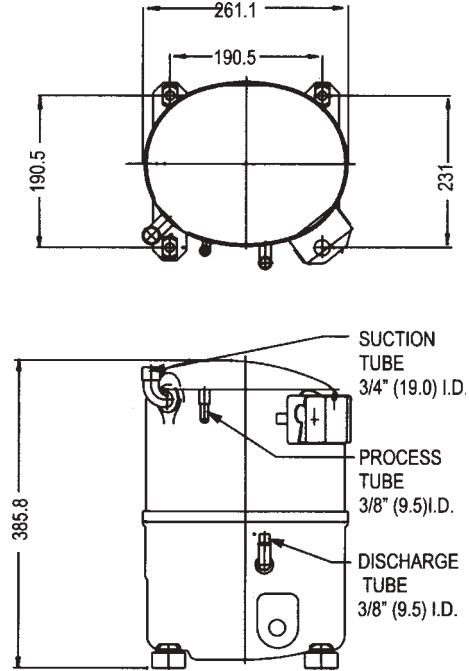
DIMENSIONAL DRAWINGS

CR42K6

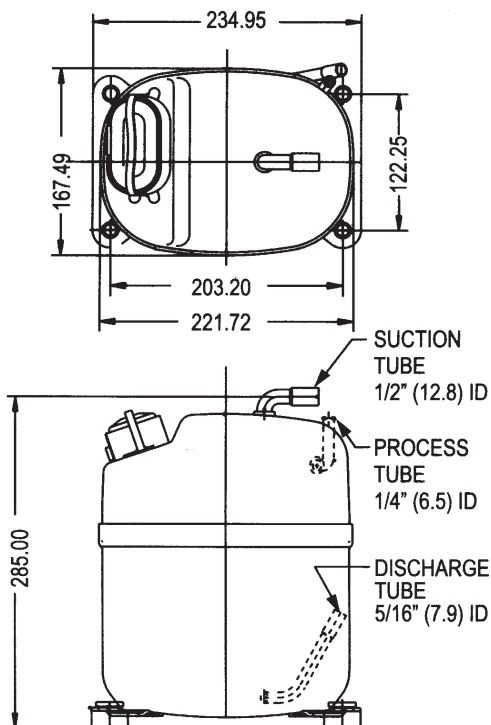
(3φ) SQUARE MOUNT



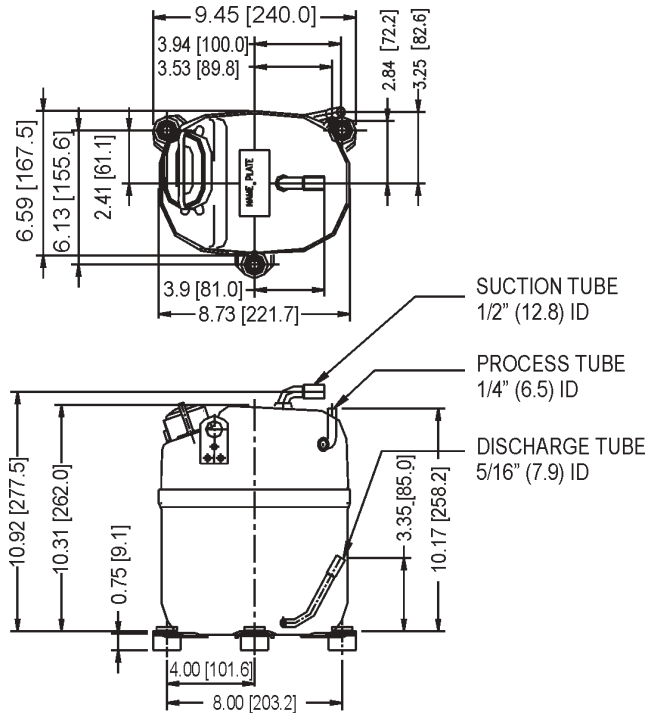
(1φ) SQUARE MOUNT



RECTANGULAR MOUNT



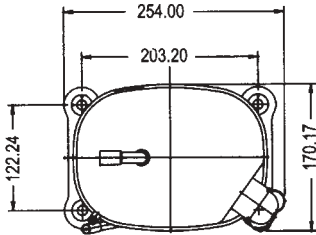
KCJ 511 HAE



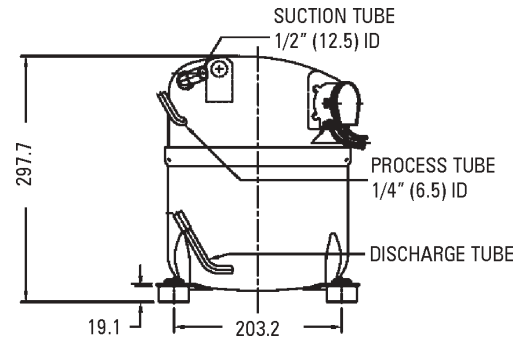
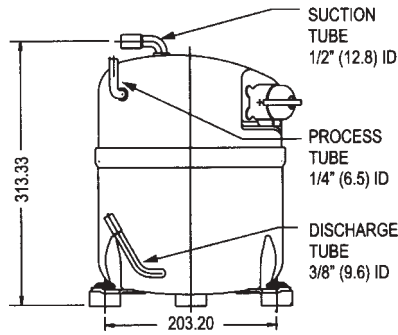
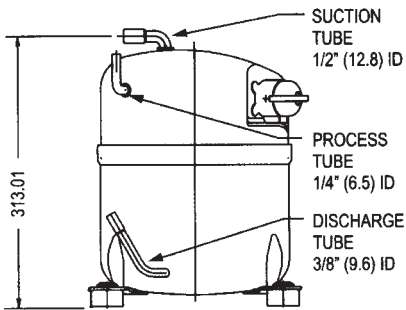
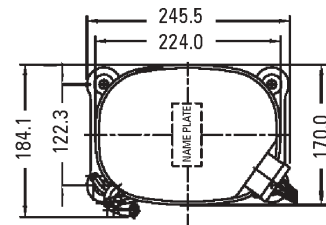
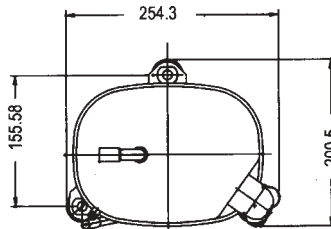
DIMENSIONAL DRAWINGS

KCJ 515 HAE

RECTANGULAR MOUNT

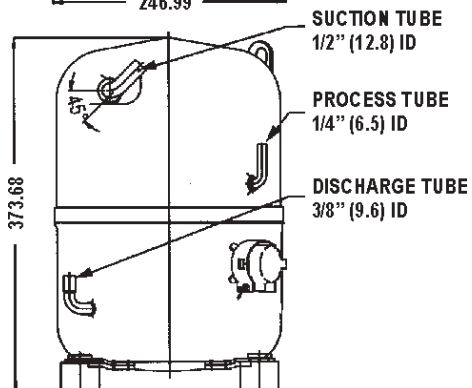
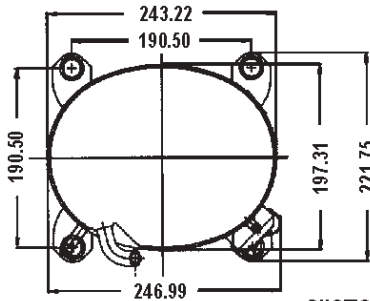


TRIANGULAR MOUNT

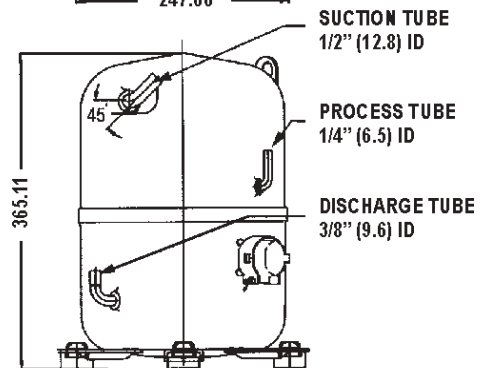
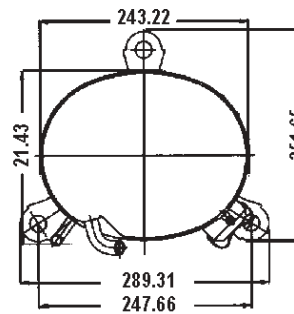


KCH 523 HAE

SQUARE MOUNT

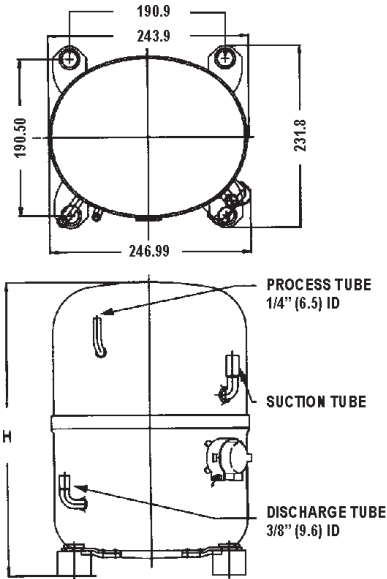


TRIANGULAR MOUNT



DIMENSIONAL DRAWINGS

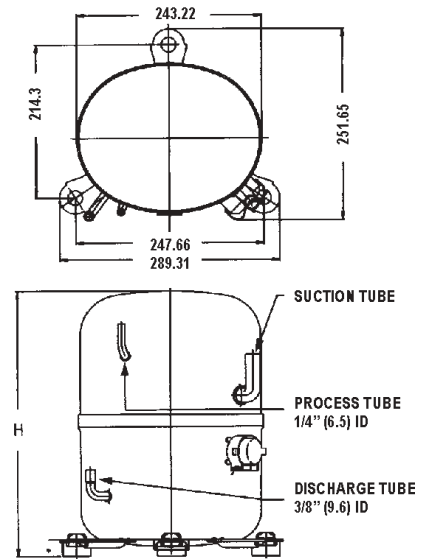
SQUARE MOUNT



Model	H	Suction ID	
		mm	inch
KCH 528 HAE	381	15.9	5/8
KCH 522 HAE (3φ)	357	15.9	5/8
KCH 524 HAE	357	12.8	1/2
KCH 522 HAE (1φ)			
KCH 515 HAE			

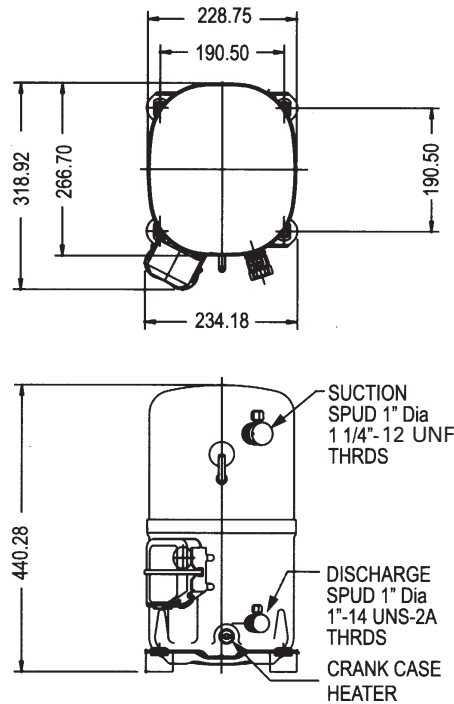
KCH

TRIANGULAR MOUNT

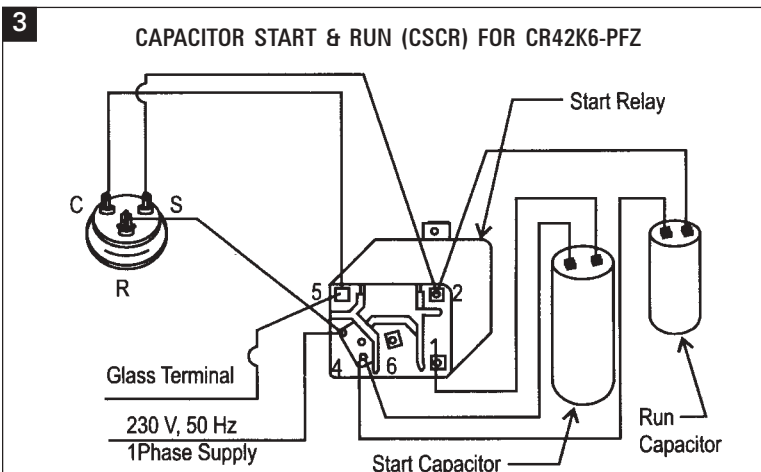
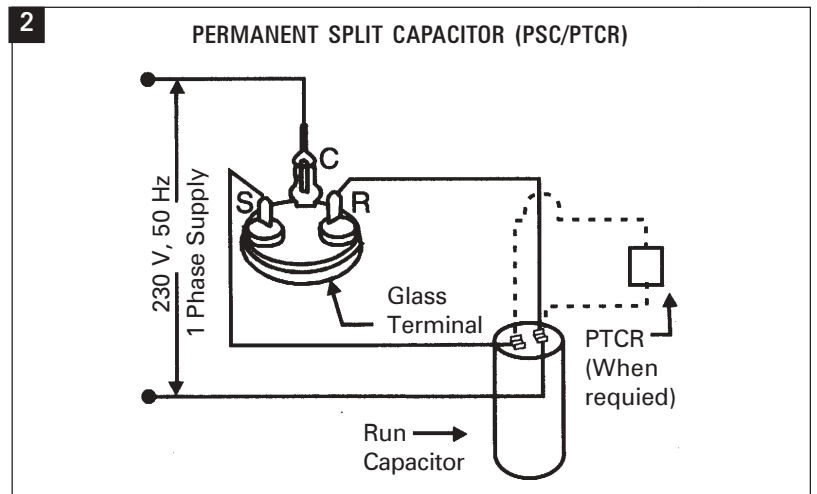
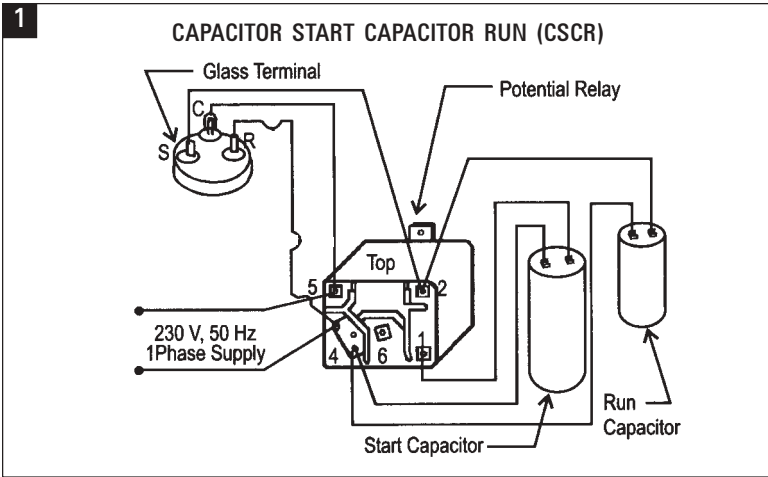


Model	H	Suction ID	
		mm	inch
KCH 528 HAE	372.4	15.9	5/8
KCH 522 HAE (3φ)	372.4	15.9	5/8
KCH 524 HAE	349	12.8	1/2
KCH 522 HAE (1φ)			
KCH 515 HAE			

**KCG
 SQUARE MOUNT**



WIRING DIAGRAMS



20°F (11.1°K) Superheat	15°F (8.3°C) Subcooling	95°F (35°C) Ambient
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CK22K3-PF1

Rated Voltage 230V, 50 Hz, 1 Phase

COOLING CAPACITY (BTU / HOUR)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
°F		-10	0	10	20	30	40	45	50	55
37.8	100	2100	4508	7800	11500	15300	20100	22700	25400	28200
43.3	110	—	3600	6500	9810	13700	18400	20900	23500	26000
48.9	120	—	—	5200	8350	12400	16900	19200	21600	23900
54.4	130	—	—	4400	6980	11000	15300	17875	19600	21800
60.0	140	—	—	—	5550	9520	13600	15600	17500	19200

INPUT POWER (WATTS)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
°F		-10	0	10	20	30	40	45	50	55
37.8	100	860	1070	1220	1370	1510	1600	1540	1700	1780
43.3	110	—	1080	1230	1410	1590	1710	1760	1830	1920
48.9	120	—	—	1250	1410	1630	1780	1850	1930	2030
54.4	130	—	—	1180	1390	1630	1840	1925	2020	2130
60.0	140	—	—	—	1390	1690	1910	2010	2120	2240

INPUT CURRENT (A)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
°F		-10	0	10	20	30	40	45	50	55
37.8	100	5	5.4	6.0	6.4	6.8	7.3	7.7	8.1	8.7
43.3	110	—	5.4	6.0	6.4	7.1	7.7	8.1	8.6	9.0
48.9	120	—	—	6.0	6.4	7.2	8.0	8.4	8.9	9.3
54.4	130	—	—	5.6	6.3	7.4	8.3	8.8	9.2	9.6
60.0	140	—	—	—	6.3	7.6	8.7	9.1	9.5	9.9

CK24K3-PFZ

Rated Voltage 220V, 50 Hz, 1 Phase

COOLING CAPACITY (BTU / HOUR)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
°F		-10	0	10	20	30	40	45	50	55
37.8	100	902	7010	10400	14100	18200	22800	25300	27900	30700
43.3	110	—	5430	8840	12500	16600	21100	23500	28100	28900
48.9	120	—	—	6990	10600	14600	19100	21500	24000	26600
54.4	130	—	—	5290	8870	12800	17100	19800	21800	24400
60.0	140	—	—	—	7620	11400	15500	17800	20100	26600

INPUT POWER (WATTS)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
°F		-10	0	10	20	30	40	45	50	55
37.8	100	902	1140	1320	1470	1610	1740	1810	1890	1970
43.3	110	—	1140	1370	1560	1720	1860	1920	1990	2070
48.9	120	—	—	1390	1580	1770	1940	2010	2080	2150
54.4	130	—	—	1270	1570	1810	2010	2100	2180	2260
60.0	140	—	—	—	1540	1850	2100	2210	2310	2400

INPUT CURRENT (A)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
°F		-10	0	10	20	30	40	45	50	55
37.8	100	5.9	3.1	6.5	7.0	7.5	8.1	8.4	8.9	8.9
43.3	110	—	6.3	6.7	7.2	7.8	8.5	8.8	9.2	9.5
48.9	120	—	—	6.7	7.3	8.0	8.8	9.2	9.7	10.1
54.4	130	—	—	6.4	7.2	8.1	9.1	9.6	10.2	10.7
60.0	140	—	—	—	7.1	8.2	9.5	10.1	10.8	11.5

Production compressors to meet above nominal performance values within ± 5%.

20°F (11.1°K) Superheat

15°F (8.3°C) Subcooling

95°F (35°C) Ambient

CK30K3-PFZ

Rated Voltage 220V, 50 Hz, 1 Phase

COOLING CAPACITY (BTU / HOUR)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
°F		-10	0	10	20	30	40	45	50	55
37.8	100	4950	8600	13000	17500	22700	27200	31400	34500	37800
43.3	110	—	6700	10900	15900	20800	25300	28900	32200	35100
48.9	120	—	—	9600	14000	17700	23100	27000	30200	33000
54.4	130	—	—	7800	12150	17000	21200	24500	27900	30500
60.0	140	—	—	—	10900	15100	18700	22300	25000	27700

INPUT POWER (WATTS)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
°F		-10	0	10	20	30	40	45	50	55
37.8	100	1160	1430	1690	1940	2050	2210	2280	2330	2400
43.3	110	—	1480	1780	2000	2140	2340	2430	2500	2540
48.9	120	—	—	1870	2080	2240	2460	2600	2700	2750
54.4	130	—	—	1610	2150	2340	2600	2725	2870	2970
60.0	140	—	—	—	2220	2420	2730	2880	3030	3160

INPUT CURRENT (A)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
°F		-10	0	10	20	30	40	45	50	55
37.8	100	6.5	7.5	8.2	9.1	9.7	10.1	10.6	11.0	11.4
43.3	110	—	—	8.5	9.3	10.1	10.7	11.2	11.7	12.0
48.9	120	—	—	8.7	9.5	10.6	11.4	11.9	12.4	12.9
54.4	130	—	—	8.2	9.8	11.0	11.9	12.4	13.1	13.7
60.0	140	—	—	—	10.1	11.3	12.4	13.1	13.8	14.6

CK32K3-PFZ

Rated Voltage 220V, 50 Hz, 1 Phase

COOLING CAPACITY (BTU / HOUR)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
°F		-10	0	10	20	30	40	45	50	55
37.8	100	5700	9500	14100	18700	24200	29500	33300	37000	40900
43.3	110	—	7900	11980	17000	22000	27300	31300	34800	38000
48.9	120	—	—	10700	15300	20300	25500	29200	32600	35700
54.4	130	—	—	9178	13600	18400	23200	26500	30200	33000
60.0	140	—	—	—	11800	16300	20900	24400	27600	30700

INPUT POWER (WATTS)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
°F		-10	0	10	20	30	40	45	50	55
37.8	100	1260	1550	1830	2100	2230	2390	2470	2520	2530
43.3	110	—	1610	1930	2170	2350	2530	2630	2710	2750
48.9	120	—	—	2020	2250	2460	2680	2810	2910	2980
54.4	130	—	—	1740	2330	2560	2820	2950	3110	3210
60.0	140	—	—	—	2420	2670	2950	3120	3280	3420

INPUT CURRENT (A)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
°F		-10	0	10	20	30	40	45	50	55
37.8	100	7.1	8.2	9.1	10.1	10.8	11.3	11.9	12.3	12.8
43.3	110	—	8.6	9.35	10.4	11.3	12.0	12.55	13.1	13.5
48.9	120	—	—	9.6	10.6	11.9	12.75	13.2	13.9	14.5
54.4	130	—	—	8.5	10.8	12.3	13.4	14.0	14.7	15.5
60.0	140	—	—	—	11.1	12.7	14.0	14.8	15.6	16.5

Production compressors to meet above nominal performance values within ± 5%.



50 HERTZ PERFORMANCE DATA

AIR CONDITIONING COMPRESSORS R22

20°F (11.1°K) Superheat	15°F (8.3°C) Subcooling	95°F (35°C) Ambient
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CR22K6M-PF1

Rated Voltage 230V, 50 Hz, 1 Phase

COOLING CAPACITY (BTU / HOUR)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
	°F	-10	0	10	20	30	40	45	50	55
37.8	100	2280	5950	9370	12900	16600	21800	24600	27800	31400
43.3	110	—	4830	8200	11600	15400	19900	22600	25600	29000
48.9	120	—	—	7020	10300	13900	18100	20600	23400	26500
54.4	130	—	—	5800	8920	12300	16200	18500	21100	24000
60.0	140	—	—	—	7500	10400	14200	16300	18700	21400
65.6	150	—	—	—	6050	8920	12200	14100	16300	18700

INPUT POWER (WATTS)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
	°F	-10	0	10	20	30	40	45	50	55
37.8	100	750	990	1170	1290	1380	1440	1450	1490	1510
43.3	110	—	970	1180	1340	1460	1550	1590	1640	1680
48.9	120	—	—	1170	1360	1520	1650	1700	1760	1820
54.4	130	—	—	1140	1370	1550	1720	1750	1870	1940
60.0	140	—	—	—	1350	1570	1770	1860	1930	2040
65.6	150	—	—	—	1310	1570	1800	1900	2010	2120

CR30K6M-PF1

Rated Voltage 230V, 50 Hz, 1 Phase

COOLING CAPACITY (BTU / HOUR)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
	°F	-10	0	10	20	30	40	45	50	55
37.8	100	5040	8200	12200	17000	22400	28600	32000	35600	39400
43.3	110	—	6870	10600	15300	20400	26300	29500	32900	36500
48.9	120	—	—	9060	13600	18500	24000	27100	30300	33700
54.4	130	—	—	7550	12000	16600	21800	24600	27700	30900
60.0	140	—	—	—	10300	14600	19600	22200	25100	28100
65.6	150	—	—	—	8680	12800	17400	19900	22500	25400

INPUT POWER (WATTS)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
	°F	-10	0	10	20	30	40	45	50	55
37.8	100	980	1190	1390	1660	1770	1840	1850	1860	1850
43.3	110	—	1180	1410	1740	1890	2000	2040	2060	2080
48.9	120	—	—	1410	1800	1990	2140	2200	2250	2290
54.4	130	—	—	1390	1840	2070	2260	2350	2420	2480
60.0	140	—	—	—	1850	2120	2360	2460	2560	2640
65.6	150	—	—	—	1820	2130	2410	2540	2660	2770

INPUT CURRENT (A)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
	°F	-10	0	10	20	30	40	45	50	55
37.8	100	5.5	6.3	7.1	8.7	9.2	9.4	9.5	9.4	9.3
43.3	110	—	6.3	7.2	8.9	9.5	9.9	10.0	10.1	10.0
48.9	120	—	—	7.2	9.0	9.7	10.3	10.5	10.7	10.0
54.4	130	—	—	7.1	9.0	9.9	10.7	11.0	11.2	11.4
60.0	140	—	—	—	9.1	10.1	11.1	11.5	11.8	12.1
65.6	150	—	—	—	9.2	10.3	11.4	11.9	12.4	12.8

Production compressors to meet above nominal performance values within $\pm 5\%$.

20°F (11.1°K) Superheat	15°F (8.3°C) Subcooling	95°F (35°C) Ambient
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CR36K6-PFZ

Rated Voltage 220V, 50 Hz, 1 Phase

COOLING CAPACITY (BTU / HOUR)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
°F		-10	0	10	20	30	40	45	50	55
37.8	100	6220	10400	15100	20500	26700	33700	37600	41700	46200
43.3	110	—	8200	13100	18400	24400	31200	34900	38900	43300
48.9	120	—	—	11600	16600	22200	28600	32100	35800	39700
54.4	130	—	—	9100	14200	19700	25900	29300	32900	36900
60.0	140	—	—	—	12700	17800	23500	26600	29900	33400

INPUT POWER (WATTS)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
°F		-10	0	10	20	30	40	45	50	55
37.8	100	1220	1490	1710	1900	2030	2100	2120	2120	2110
43.3	110	—	1500	1740	1980	2160	2280	2330	2350	2360
48.9	120	—	—	1770	2060	2290	2470	2540	2590	2620
54.4	130	—	—	1810	2090	2380	2620	2720	2800	2860
60.0	140	—	—	—	2120	2480	2770	2900	3010	3100

CR42K6-PFZ

Rated Voltage 220V, 50 Hz, 1 Phase

COOLING CAPACITY (BTU / HOUR)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
°F		-10	0	10	20	30	40	45	50	55
37.8	100	8800	12400	17500	24000	31800	40700	45500	50600	56000
43.3	110	—	10900	15600	21700	29000	37500	42000	46800	52000
48.9	120	—	—	13800	19400	26300	34300	38600	43100	47900
54.4	130	—	—	12100	17300	23700	31100	35200	39500	43900
60.0	140	—	—	—	15300	21200	28100	31900	35900	40100

INPUT POWER (WATTS)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
°F		-10	0	10	20	30	40	45	50	55
37.8	100	1490	1730	1980	2210	2400	2530	2570	2580	2560
43.3	110	—	1740	2030	2310	2550	2740	2810	2850	2860
48.9	120	—	—	2060	2390	2690	2940	3030	3110	3160
54.4	130	—	—	2070	2450	2810	3110	3240	3350	3430
60.0	140	—	—	—	2500	2910	3280	3440	3580	3700

INPUT CURRENT (A)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
°F		-10	0	10	20	30	40	45	50	55
37.8	100	—	8.9	9.9	10.9	11.8	12.4	12.5	12.6	12.5
43.3	110	—	8.9	10.1	11.3	12.4	13.3	13.6	13.8	13.8
48.9	120	—	—	10.2	11.6	13.0	14.1	14.5	14.9	15.1
54.4	130	—	—	10.3	11.9	13.5	14.8	15.4	15.9	16.3
60.0	140	—	—	—	12.1	13.9	15.6	16.3	16.9	17.5

Production compressors to meet above nominal performance values within ± 5%.

20°F (11.1°K) Superheat	15°F (8.3°C) Subcooling	95°F (35°C) Ambient
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CR30K6M-TFM *

Rated Voltage 400V, 50 Hz, 3 Phase

COOLING CAPACITY (BTU / HOUR)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
	°F	-10	0	10	20	30	40	45	50	55
37.8	100	5040	8200	12200	16900	22400	28700	32100	35700	39500
43.3	110	—	6870	10600	15100	20300	26300	29500	32900	36500
48.9	120	—	—	9060	13300	18200	23800	26900	30100	33500
54.4	130	—	—	7550	11500	16100	21400	24500	27300	30500
60.0	140	—	—	—	9840	14200	19100	21800	24700	27700
65.5	150	—	—	—	8280	12300	16900	19400	22100	24900

INPUT POWER (WATTS)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
	°F	-10	0	10	20	30	40	45	50	55
37.8	100	980	1190	1390	1550	1680	1750	1770	1760	1740
43.3	110	—	1180	1410	1620	1790	1910	1940	1970	1970
48.9	120	—	—	1410	1660	1880	2040	2110	2160	2190
54.4	130	—	—	1390	1680	1950	2170	2350	2330	2390
60.0	140	—	—	—	1680	1990	2270	2380	2490	2580
65.5	150	—	—	—	1660	2020	2350	2490	2630	2740

* Under development.

CR36K6-TF5

Rated Voltage 400V, 50 Hz, 3 Phase

COOLING CAPACITY (BTU / HOUR)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
	°F	-10	0	10	20	30	40	45	50	55
37.8	100	6170	10300	15000	20400	26500	33500	37300	41500	45900
43.3	110	—	8690	13300	18500	24300	30900	34600	38500	42700
48.9	120	—	—	11500	16500	22100	28400	31800	35500	39400
54.4	130	—	—	9700	14500	19900	25800	29100	32600	36200
60.0	140	—	—	—	10700	15600	21000	23800	26900	33100

INPUT POWER (WATTS)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
	°F	-10	0	10	20	30	40	45	50	55
37.8	100	1200	1460	1690	1860	1990	2070	2090	2090	2070
43.3	110	—	1450	1730	1950	2130	2250	2290	2320	2330
48.9	120	—	—	1740	2020	2250	2430	2490	2540	2580
54.4	130	—	—	1730	2070	2360	2590	2680	2760	2820
60.0	140	—	—	—	2090	2440	2730	2850	2960	3050

Production compressors to meet above nominal performance values within ± 5%.



50 HERTZ PERFORMANCE DATA

AIR CONDITIONING COMPRESSORS
R22

20°F (11.1°K) Superheat	15°F (8.3°C) Subcooling	95°F (35°C) Ambient
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CR42K6-TF5

Rated Voltage 400V, 50 Hz, 3Phase

COOLING CAPACITY (BTU / HOUR)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
°F		-10	0	10	20	30	40	45	50	55
37.8	100	9400	12800	17800	24000	31100	39600	44400	49700	55400
43.3	110	—	11500	11900	21700	28500	36500	41000	46000	51300
48.9	120	—	—	14200	19500	25900	33300	37700	42300	47300
54.4	130	—	—	12600	17200	23200	30300	34200	38500	43300
60.0	140	—	—	—	15000	20600	27100	30900	34800	39200

INPUT POWER (WATTS)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
°F		-10	0	10	20	30	40	45	50	55
37.8	100	1500	1675	1920	2190	2370	2480	2520	2550	2570
43.3	110	—	1700	1950	2290	2520	2700	2770	2830	2880
48.9	120	—	—	1990	2370	2650	2980	2990	3070	3150
54.4	130	—	—	2020	2410	2750	3040	3300	3290	3400
60.0	140	—	—	—	2430	2820	3170	3450	3490	3620

INPUT CURRENT (A)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
°F		-10	0	10	20	30	40	45	50	55
37.8	100	4.2	4.3	4.6	4.8	5.0	5.2	5.2	5.2	5.3
43.3	110	—	4.3	4.7	4.9	5.2	5.6	5.6	5.6	5.8
48.9	120	—	—	4.8	5.0	5.4	5.8	5.9	6.0	6.2
54.4	130	—	—	4.9	5.1	5.5	6.0	6.1	6.2	6.5
60.0	140	—	—	—	5.2	5.6	6.2	6.3	6.5	6.8

Production compressors to meet above nominal performance values within ± 5%.



50 HERTZ PERFORMANCE DATA

AIR CONDITIONING COMPRESSORS R22

20°F (11.1°K) Superheat	15°F (8.3°C) Subcooling	95°F (35°C) Ambient
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KCJ511HAE

Rated Voltage 230V, 50 Hz, 1 Phase

COOLING CAPACITY (BTU / HOUR)

Condensing Temperature		Evaporating Temperature					
°C	°F	-6.7	-1.1	4.4	7.2	10	12.8
		20	30	40	45	50	55
37.8	100	5960	7120	10100	11900	13800	15500
43.3	110	5240	6280	9180	11000	12800	14500
48.9	120	4650	5540	8290	10000	11700	13400
54.4	130	4210	4880	7440	9100	10700	12300
60.0	140	—	4310	6610	8110	9650	11100

INPUT POWER (WATTS)

Condensing Temperature		Evaporating Temperature					
°C	°F	-6.7	-1.1	4.4	7.2	10	12.8
		20	30	40	45	50	55
37.8	100	712	725	830	806	980	1050
43.3	110	739	756	869	945	1020	1100
48.9	120	769	792	910	988	1070	1150
54.4	130	801	829	952	1020	1110	1190
60.0	140	—	867	992	1074	1160	1240

INPUT CURRENT (A)

Condensing Temperature		Evaporating Temperature					
°C	°F	-6.7	-1.1	4.4	7.2	10	12.8
		20	30	40	45	50	55
37.8	100	3.8	3.9	4.2	4.4	4.5	4.7
43.3	110	3.9	4.0	4.3	4.5	4.7	4.9
48.9	120	4.0	4.1	4.4	4.6	4.8	5.0
54.4	130	4.1	4.2	4.5	4.7	5.0	5.2
60.0	140	—	4.4	4.7	4.9	5.1	5.3

KCJ515HAE

Rated Voltage 230V, 50 Hz, 1 Phase

COOLING CAPACITY (BTU / HOUR)

Condensing Temperature		Evaporating Temperature					
°C	°F	-6.7	-1.1	4.4	7.2	10	12.8
		20	30	40	45	50	55
37.8	100	7937	10530	13016	15181	17170	19100
43.3	110	7303	9701	12188	14303	16214	18008
48.9	120	6728	8921	11174	13289	15278	17043
54.4	130	6211	8171	10150	12470	14440	16175
60.0	140	—	7352	9341	11476	13582	15239

INPUT POWER (WATTS)

Condensing Temperature		Evaporating Temperature					
°C	°F	-6.7	-1.1	4.4	7.2	10	12.8
		20	30	40	45	50	55
37.8	100	1085	1158	1225	1285	1339	1389
43.3	110	1117	1199	1269	1326	1386	1437
48.9	120	1150	1241	1313	1373	1427	1484
54.4	130	1184	1275	1354	1420	1475	1528
60.0	140	—	1323	1399	1468	1528	1573

INPUT CURRENT (A)

Condensing Temperature		Evaporating Temperature					
°C	°F	-6.7	-1.1	4.4	7.2	10	12.8
		20	30	40	45	50	55
37.8	100	4.8	5.2	5.5	5.9	6.1	6.4
43.3	110	4.9	5.4	5.7	6.1	6.3	6.6
48.9	120	5.0	5.5	5.9	6.3	6.5	6.8
54.4	130	5.2	5.7	6.1	6.4	6.7	7.0
60.0	140	—	5.9	6.3	6.7	7.0	7.2

Production compressors to meet above nominal performance values within $\pm 5\%$.



50 HERTZ PERFORMANCE DATA

AIR CONDITIONING COMPRESSORS R22

20°F (11.1°K) Superheat	15°F (8.3°C) Subcooling	95°F (35°C) Ambient
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KCH522HAE

Rated Voltage 230V, 50 Hz, 1 Phase

COOLING CAPACITY (BTU / HOUR)

Condensing Temperature		Evaporating Temperature					
°C		-6.7	-1.1	4.4	7.2	10	12.8
°F		20	30	40	45	50	55
37.8	100	13300	17400	22100	24700	27400	30400
43.3	110	11700	15800	20000	22500	25200	28000
48.9	120	10300	13900	18000	20400	22900	25600
54.4	130	8940	12200	16000	17850	20500	23100
60.0	140	—	10600	14000	16000	18200	20500

INPUT POWER (WATTS)

Condensing Temperature		Evaporating Temperature					
°C		-6.7	-1.1	4.4	7.2	10	12.8
°F		20	30	40	45	50	55
37.8	100	1410	1500	1580	1640	1680	1720
43.3	110	1484	1586	1674	1755	1816	1850
48.9	120	1566	1680	1790	1880	1940	1970
54.4	130	1630	1770	1900	2000	2050	2090
60.0	140	—	1864	2015	2120	2180	2215

INPUT CURRENT (A)

Condensing Temperature		Evaporating Temperature					
°C		-6.7	-1.1	4.4	7.2	10	12.8
°F		20	30	40	45	50	55
37.8	100	7.2	7.4	7.7	7.9	8.2	8.6
43.3	110	7.3	7.7	8.1	8.3	8.6	9.0
48.9	120	7.6	8.0	8.5	8.7	9.0	9.4
54.4	130	7.9	8.3	8.9	9.1	9.4	9.7
60.0	140	—	8.6	9.3	9.5	9.8	10.1

KCH523HAE

Rated Voltage 230V, 50 Hz, 1 Phase

COOLING CAPACITY (BTU / HOUR)

Condensing Temperature		Evaporating Temperature					
°C		-6.7	-1.1	4.4	7.2	10	12.8
°F		20	30	40	45	50	55
37.8	100	14200	18300	23000	25700	28800	32300
43.3	110	12200	16000	20400	23000	26000	29400
48.9	120	11000	14500	18600	21100	23900	27200
54.4	130	9840	13000	16800	18800	21900	25000
60.0	140	—	11000	14500	15700	19300	22300

INPUT POWER (WATTS)

Condensing Temperature		Evaporating Temperature					
°C		-6.7	-1.1	4.4	7.2	10	12.8
°F		20	30	40	45	50	55
37.8	100	1350	1370	1520	1610	1700	1800
43.3	110	1380	1420	1570	1670	1770	1860
48.9	120	1410	1460	1620	1720	1820	1920
54.4	130	1440	1500	1670	1780	1880	1990
60.0	140	—	1550	1730	1840	1950	2060

INPUT CURRENT (A)

Condensing Temperature		Evaporating Temperature					
°C		-6.7	-1.1	4.4	7.2	10	12.8
°F		20	30	40	45	50	55
37.8	100	6.5	6.7	7.1	7.4	7.7	8.0
43.3	110	6.6	6.8	7.3	7.6	8.0	8.3
48.9	120	6.8	7.0	7.5	7.9	8.2	8.6
54.4	130	6.9	7.2	7.8	8.2	8.5	8.9
60.0	140	—	7.4	8.0	8.4	8.7	9.2

Production compressors to meet above nominal performance values within $\pm 5\%$.



50 HERTZ PERFORMANCE DATA

AIR CONDITIONING COMPRESSORS R22

20°F (11.1°K) Superheat	15°F (8.3°C) Subcooling	95°F (35°C) Ambient
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KCH524HAE

Rated Voltage 230V, 50 Hz, 1 Phase

COOLING CAPACITY (BTU / HOUR)

Condensing Temperature		Evaporating Temperature					
°C		-6.7	-1.1	4.4	7.2	10	12.8
°F		20	30	40	45	50	55
37.8	100	14500	18400	23400	26200	29200	32400
43.3	110	12900	16600	21400	24100	27100	30100
48.9	120	11400	14900	19400	22000	24700	27700
54.4	130	9930	13200	17400	19500	22300	25100
60.0	140	—	11600	15400	17600	19900	22400

INPUT POWER (WATTS)

Condensing Temperature		Evaporating Temperature					
°C		-6.7	-1.1	4.4	7.2	10	12.8
°F		20	30	40	45	50	55
37.8	100	1680	1710	1870	1960	2050	2140
43.3	110	1750	1790	1960	2060	2160	2240
48.9	120	1820	1890	2060	2170	2270	2360
54.4	130	1900	1980	2170	2290	2390	2480
60.0	140	—	2080	2280	2400	2510	2600

INPUT CURRENT (A)

Condensing Temperature		Evaporating Temperature					
°C		-6.7	-1.1	4.4	7.2	10	12.8
°F		20	30	40	45	50	55
37.8	100	7.4	7.9	8.2	8.4	8.8	8.3
43.3	110	7.6	8.2	8.7	9.0	8.4	9.9
48.9	120	7.8	8.6	9.1	9.5	9.9	10.5
54.4	130	8.1	9.9	9.6	10.0	10.5	11.2
60.0	140	—	9.5	10.2	10.6	11.1	11.8

KCH528HAE

Rated Voltage 230V, 50 Hz, 1 Phase

COOLING CAPACITY (BTU / HOUR)

Condensing Temperature		Evaporating Temperature					
°C		-6.7	-1.1	4.4	7.2	10	12.8
°F		20	30	40	45	50	55
37.8	100	17400	22600	28700	32100	35700	39600
43.3	110	15600	20600	26300	29500	33000	36700
48.9	120	13700	18200	23700	26700	30000	33500
54.4	130	11600	15800	20900	23300	26900	30300
60.0	140	—	13400	18200	20900	23900	27200

INPUT POWER (WATTS)

Condensing Temperature		Evaporating Temperature					
°C		-6.7	-1.1	4.4	7.2	10	12.8
°F		20	30	40	45	50	55
37.8	100	2040	2060	2290	2440	2570	2670
43.3	110	2100	2150	2410	2560	2700	2800
48.9	120	2170	2260	2540	2690	2830	2930
54.4	130	2250	2370	2660	2800	2960	3060
60.0	140	—	2470	2780	2950	3080	3180

INPUT CURRENT (A)

Condensing Temperature		Evaporating Temperature					
°C		-6.7	-1.1	4.4	7.2	10	12.8
°F		20	30	40	45	50	55
37.8	100	10.6	11.1	11.8	12.2	12.7	13.3
43.3	110	10.9	11.4	12.2	11.6	13.2	13.8
48.9	120	11.2	11.8	11.6	13.1	13.7	14.3
54.4	130	11.5	12.2	13.1	13.6	14.2	14.9
60.0	140	—	12.7	13.6	14.1	12.8	15.4

Production compressors to meet above nominal performance values within $\pm 5\%$.

20°F (11.1°K) Superheat	15°F (8.3°C) Subcooling	95°F (35°C) Ambient
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KCH522HAE

Rated Voltage 400V, 50 Hz, 3 Phase

COOLING CAPACITY (BTU / HOUR)

Condensing Temperature		Evaporating Temperature					
°C		-6.7	-1.1	4.4	7.2	10	12.8
°F		20	30	40	45	50	55
37.8	100	13200	17100	22000	24800	27300	30400
43.3	110	11700	15300	20000	22500	25100	27900
48.9	120	10500	13700	17900	20300	23000	25700
54.4	130	8800	11900	16100	17850	20700	23100
60.0	140	—	10400	14100	16100	18200	20400

INPUT POWER (WATTS)

Condensing Temperature		Evaporating Temperature					
°C		-6.7	-1.1	4.4	7.2	10	12.8
°F		20	30	40	45	50	55
37.8	100	1220	1410	1445	1555	1675	1800
43.3	110	1300	1500	1550	1660	1780	1900
48.9	120	1365	1594	1680	1775	1890	2000
54.4	130	1445	1700	1790	1850	2010	2100
60.0	140	—	1780	1880	1980	2125	2225

INPUT CURRENT (A)

Condensing Temperature		Evaporating Temperature					
°C		-6.7	-1.1	4.4	7.2	10	12.8
°F		20	30	40	45	50	55
37.8	100	2.00	2.10	2.24	2.39	2.59	2.63
43.3	110	2.10	2.20	2.40	2.59	2.79	2.85
48.9	120	2.23	2.31	2.60	2.81	3.00	3.07
54.4	130	2.33	2.50	2.81	3.00	3.15	3.29
60.0	140	—	2.63	2.99	3.20	3.35	3.50

KCH528HAE

Rated Voltage 400V, 50 Hz, 3 Phase

COOLING CAPACITY (BTU / HOUR)

Condensing Temperature		Evaporating Temperature					
°C		-6.7	-1.1	4.4	7.2	10	12.8
°F		20	30	40	45	50	55
37.8	100	17300	22400	28800	32000	36000	39500
43.3	110	15700	20300	26250	29500	33000	36400
48.9	120	13700	18000	23700	26800	30000	33800
54.4	130	11500	15800	21000	23300	27000	30400
60.0	140	—	14000	18250	21100	24000	27000

INPUT POWER (WATTS)

Condensing Temperature		Evaporating Temperature					
°C		-6.7	-1.1	4.4	7.2	10	12.8
°F		20	30	40	45	50	55
37.8	100	1650	1900	1950	2100	2260	2430
43.3	110	1760	2030	2090	2245	2400	2570
48.9	120	1845	2155	2245	2400	2550	2700
54.4	130	1950	2290	2360	2500	2690	2840
60.0	140	—	2400	2540	2720	2870	3000

INPUT CURRENT (A)

Condensing Temperature		Evaporating Temperature					
°C		-6.7	-1.1	4.4	7.2	10	12.8
°F		20	30	40	45	50	55
37.8	100	2.61	2.85	3.01	3.25	3.45	3.55
43.3	110	2.80	3.00	3.25	3.50	3.72	3.85
48.9	120	2.94	3.19	3.50	3.73	4.00	4.20
54.4	130	3.15	3.40	3.72	4.00	4.25	4.50
60.0	140	—	3.55	3.94	4.25	5.50	4.75

Production compressors to meet above nominal performance values within ± 5%.



50 HERTZ PERFORMANCE DATA

AIR CONDITIONING COMPRESSORS R22

20°F (11.1°K) Superheat	15°F (8.3°C) Subcooling	95°F (35°C) Ambient
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KCG554HAE

Rated Voltage 400V, 50 Hz, 3 Phase

COOLING CAPACITY (BTU / HOUR)

Condensing Temperature		Evaporating Temperature					
°C		-6.7	-1.1	4.4	7.2	10	12.8
°F		20	30	40	45	50	55
37.8	100	31600	41800	53800	60000	67500	75000
43.3	110	27000	36300	48000	54600	61800	68800
48.9	120	23200	32100	43600	49700	56000	63000
54.4	130	19800	28100	39000	43875	50200	57200
60.0	140	—	23800	33800	38800	43400	50500

INPUT POWER (WATTS)

Condensing Temperature		Evaporating Temperature					
°C		-6.7	-1.1	4.4	7.2	10	12.8
°F		20	30	40	45	50	55
37.8	100	2800	3475	3800	3940	4090	4170
43.3	110	2850	3610	3980	4132	4300	4400
48.9	120	2960	3720	4150	4320	4490	4600
54.4	130	3070	3875	4360	4450	4720	4820
60.0	140	—	4100	4600	4737	4960	5090

INPUT CURRENT (A)

Condensing Temperature		Evaporating Temperature					
°C		-6.7	-1.1	4.4	7.2	10	12.8
°F		20	30	40	45	50	55
37.8	100	5.0	5.5	6.0	6.4	6.8	7.3
43.3	110	5.1	5.7	6.2	6.6	7.1	7.6
48.9	120	5.2	6.0	6.5	6.8	7.4	8.0
54.4	130	5.4	6.2	6.7	7.2	7.7	8.3
60.0	140	—	6.4	7.0	7.4	7.9	8.6

KCG562HAE

Rated Voltage 400V, 50 Hz, 3 Phase

COOLING CAPACITY (BTU / HOUR)

Condensing Temperature		Evaporating Temperature					
°C		-6.7	-1.1	4.4	7.2	10	12.8
°F		20	30	40	45	50	55
37.8	100	37800	50700	63100	70300	78800	89100
43.3	110	32300	45100	57200	64100	72300	82300
48.9	120	27400	39900	51400	58100	65900	75400
54.4	130	22900	34900	45800	50700	59400	66400
60.0	140	—	30100	40100	45800	52600	61100

INPUT POWER (WATTS)

Condensing Temperature		Evaporating Temperature					
°C		-6.7	-1.1	4.4	7.2	10	12.8
°F		20	30	40	45	50	55
37.8	100	3500	3750	4420	4800	5130	5360
43.3	110	3650	3860	4570	4960	5310	5550
48.9	120	3730	3980	4720	5130	5490	4740
54.4	130	3820	4100	4870	5250	5660	5910
60.0	140	—	4220	5010	5440	5810	6080

INPUT CURRENT (A)

Condensing Temperature		Evaporating Temperature					
°C		-6.7	-1.1	4.4	7.2	10	12.8
°F		20	30	40	45	50	55
37.8	100	6.0	6.6	7.1	7.5	8.0	8.7
43.3	110	6.1	6.8	7.4	7.8	8.4	9.1
48.9	120	6.2	7.1	7.7	8.2	8.8	9.5
54.4	130	6.4	7.3	8.0	8.5	9.1	9.9
60.0	140	—	7.6	8.3	8.8	9.4	10.2

Production compressors to meet above nominal performance values within $\pm 5\%$.



50 HERTZ PERFORMANCE DATA

AIR CONDITIONING COMPRESSORS
R22

20°F (11.1°K) Superheat	15°F (8.3°C) Subcooling	95°F (35°C) Ambient
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KCG572HAE

Rated Voltage 400V, 50 Hz, 3 Phase

COOLING CAPACITY (BTU / HOUR)

Condensing Temperature		Evaporating Temperature					
°C		-6.7	-1.1	4.4	7.2	10	12.8
°F		20	30	40	45	50	55
37.8	100	43000	56000	72000	81200	91000	102000
43.3	110	37000	50000	65600	74000	83600	93800
48.9	120	31900	44000	59100	67600	76200	86900
54.4	130	26800	38300	52300	58320	68800	78000
60.0	140	—	32300	45000	52000	60400	70000

INPUT POWER (WATTS)

Condensing Temperature		Evaporating Temperature					
°C		-6.7	-1.1	4.4	7.2	10	12.8
°F		20	30	40	45	50	55
37.8	100	4180	4535	5180	5580	6010	6260
43.3	110	4280	4680	5370	5780	6230	6495
48.9	120	4365	4830	5535	5970	6450	6720
54.4	130	4475	4975	5705	6100	6640	6920
60.0	140	—	5120	5860	6280	6830	7160

INPUT CURRENT (A)

Condensing Temperature		Evaporating Temperature					
°C		-6.7	-1.1	4.4	7.2	10	12.8
°F		20	30	40	45	50	55
37.8	100	7.1	7.8	8.6	9.1	9.7	10.5
43.3	110	7.3	8.2	8.9	9.4	10.2	11.0
48.9	120	7.5	8.5	9.3	9.8	10.5	11.4
54.4	130	7.7	8.8	9.6	10.2	11.0	11.8
60.0	140	—	9.1	10.0	10.6	11.4	12.3

Production compressors to meet above nominal performance values within ± 5%.



60 HERTZ PERFORMANCE DATA

AIR CONDITIONING COMPRESSORS R22

20°F (11.1°K) Superheat	15°F (8.3°C) Subcooling	95°F (35°C) Ambient
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CK22K3-PFV

Rated Voltage 230V, 60 Hz, 1 Phase

COOLING CAPACITY (BTU / HOUR)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
	°F	-10	0	10	20	30	40	45	50	55
37.8	100	3900	7400	10900	14700	18900	22800	26700	30300	33700
43.3	110	—	5500	8900	13000	16900	20900	24500	27700	31000
48.9	120	—	—	7000	10900	14700	18800	22100	25200	28800
54.4	130	—	—	5500	8900	12600	16500	20000	23000	26300
60.0	140	—	—	—	7500	11100	14500	18000	21100	24400

INPUT POWER (WATT)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
	°F				(20)	(30)	(40)	(45)	(50)	(55)
37.8	100	890	1070	1260	1490	1640	1730	1830	1890	1950
43.3	110	—	1120	1350	1550	1720	1830	1920	2010	2070
48.9	120	—	—	1400	1600	1760	1900	2040	2130	2210
54.4	130	—	—	1190	1650	1830	2000	2140	2230	2310
60.0	140	—	—	—	1730	1930	2110	2240	2340	2420

CK24K3-PFV

Rated Voltage 230V, 60 Hz, 1 Phase

COOLING CAPACITY (BTU / HOUR)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
	°F	-10	0	10	20	30	40	45	50	55
37.8	100	4200	7500	12100	16900	22000	27100	30800	34300	36900
43.3	110	—	6000	10100	14900	20100	25000	28700	31700	34500
48.9	120	—	—	8100	12900	18000	22800	26300	29300	31700
54.4	130	—	—	7000	11200	15800	20400	23500	26700	29000
60.0	140	—	—	—	9900	14000	17800	20800	24100	26300

INPUT POWER (WATTS)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
	°F	-10	0	10	20	30	40	45	50	55
37.8	100	1080	1340	1588	1800	1920	2050	2140	2220	2280
43.3	110	—	1320	1600	1846	1980	2150	2270	2380	2440
48.9	120	—	—	1620	1876	2060	2250	2380	2490	2570
54.4	130	—	—	1585	1900	2140	2320	2500	2600	2700
60.0	140	—	—	—	1920	2190	2400	2580	2720	2800

INPUT CURRENT (A)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
	°F	-10	0	10	20	30	40	45	50	55
37.8	100	6.0	6.3	7.0	7.8	8.5	9.0	9.5	10.0	10.3
43.3	110	—	6.6	7.3	8.1	8.8	9.4	10.0	10.6	10.9
48.9	120	—	—	7.6	8.3	9.2	9.9	10.5	11.2	11.5
54.4	130	—	—	7.0	8.5	9.5	10.5	11.0	11.7	12.0
60.0	140	—	—	—	8.9	9.9	10.9	11.7	12.3	12.5

Production compressors to meet above nominal performance values within $\pm 5\%$.



60 HERTZ PERFORMANCE DATA

AIR CONDITIONING COMPRESSORS
R22

20°F (11.1°K) Superheat	15°F (8.3°C) Subcooling	95°F (35°C) Ambient
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CK27K3-PFV

Rated Voltage 230V, 60 Hz, 1 Phase

COOLING CAPACITY (BTU / HOUR)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
	°F	-10	0	10	20	30	40	45	50	55
37.8	100	5400	9100	13600	19100	24500	29700	34200	37600	41700
43.3	110	—	7700	11800	16800	22500	27600	31700	35500	39100
48.9	120	—	—	10200	15000	20500	25300	29100	33000	36500
54.4	130	—	—	8500	13100	18400	23200	26500	30900	33700
60.0	140	—	—	—	11700	16500	21200	25000	28900	31700

INPUT POWER (WATTS)

Condensing Temperature		Evaporating Temperature								
°C		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
	°F	-10	0	10	20	30	40	45	50	55
37.8	100	1310	1500	1750	1970	2210	2350	2450	2540	2550
43.3	110	—	1560	1790	2050	2300	2490	2590	2660	2740
48.9	120	—	—	1840	2100	2390	2610	2770	2820	2900
54.4	130	—	—	1720	2140	2460	2740	2900	2960	3010
60.0	140	—	—	—	2210	2540	2840	3030	3140	3170

Production compressors to meet above nominal performance values within ± 5%.

NOTES

A large grid of graph paper for taking notes, consisting of 20 columns and 30 rows of small squares.

NOTES

A large grid of graph paper for taking notes, consisting of 20 columns and 30 rows of small squares.

SINGLE & MULTIPACK PACKAGING AND CONVERSION CHART

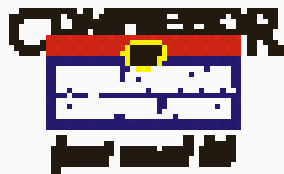
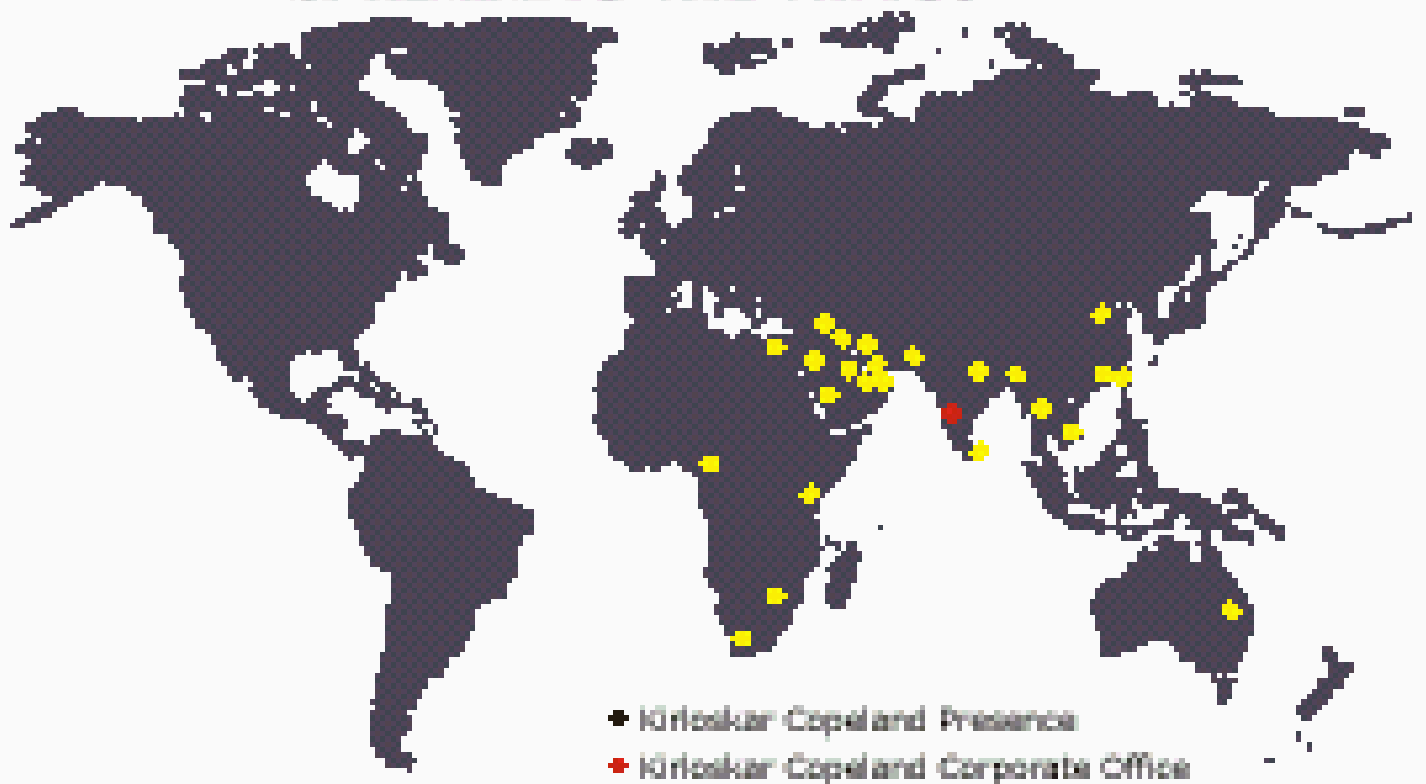
S/N	Model	Single pack with skid packing					Multipack				
		Pallet size (In inches) & qty.	Qty. Per pallet in (In nos.)	Weight per pallet	No. of comp. per container	Gross weight of container	Pallet size (In inches)	Qty. Per pallet	Weight per pallet	No. of comp. Per Container	Gross weight of container
1.	CK3-4 Leg	42.5 x 35	24	752	576	18048	41 x 35.5-20 nos. 46.5 x 42.5-4 nos.	24 & 32	752 & 1005	608	19060
2.	CK3-3 Leg	46.5 x 37	22	749	528	16478	41 x 36.75-24 nos.	24	749	576	17976
3.	CR42 (1Pn)	51.5 x 36	20	904	480	18080	41 x 38.75-10 nos. & 50.5 x 41-10 nos.	24 & 32	893 & 1182	592	21906
4.	C-36 (1Pn)	44.5 x 34	24	790	576	18960	Under Development				
5.	KCH (4 Leg)	40 x 35	24	815	576	19560	Under Development				
6.	KCH (3 Leg)	47.5 x 37- 12 pallets & 35 x 37- 12 pallets	24 & 18	817 & 620	504	17244	Under Development				
7.	KCG	44 x 41	24	1325	384	21200	Under Development				
4.	KCJ	42 x 42	40	1064	800	21280	Under Development				

UNIT CONVERSION CHART

BTUH X 0.252 = KCALH
 BTUH X 0.293 = WATTS
 $(^{\circ}\text{F} - 32) \times 5/9 = ^{\circ}\text{C}$
 POUNDS X 0.454 = KILOGRAMS
 INCHES X 25.4 = MLI METERS
 CUBIC INCHES X 16.386 = CUBIC CENTIMETERS
 FLUIDS OUNCES X 0.02957 = LITRES
 CUBIC FEET X 0.02831 = CUBIC METERS
 HORSE POWER X 0.746 = KILOWATTS

As we are constantly endeavoring to improve the performance of our models, the specifications mentioned here are subject to change from time to time. For latest information please get in touch with our nearest office. Specifications updated as on 01/07/2004.

SPREADING THE WINGS



Manufactured By

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