

Product Catalogue



EMERSON. CONSIDER IT SOLVED.™



Air Conditioning Compressors Specifications

R22 ; 220 V - 1 PH -50 Hz				High Back pressure	
Model	Displacement (cc/rev)	Cooling Capacity (Btu/Hr)	Input Current (Amp)	Input Power (Watts)	EER (Btu/W-Hr)
CK22K3-PF1*	40.80	18340	8.8	1925	9.53
CK24K3-PFZ	44.26	20350	9.7	2100	9.69
CK30K3-PFZ	53.42	25150	12.0	2725	9.23
CK32K3-PFZ	57.70	27200	14.0	2950	9.22
CR36K6-PFZ	59.65	30100	13.6	2720	11.07
CR42K6-PFZ	72.09	36100	15.4	3240	11.14
R22 ; 400 V - 3 PH - 50 Hz				High Back Pressure	
CR22K6M-TF5	40.80	18250	3.1	1800	10.14
CR30K6M-TF5	51.45	25000	4.3	2350	10.64
CR36K6-TF5	59.65	29900	4.9	2680	11.16
CR42K6-TF5	72.09	35100	6.1	3300	10.64
KCG554-HAE	99.96	45000	7.2	4450	10.11
KCG562-HAE	117.66	52000	8.5	5250	9.90
KCG572-HAE	133.22	60000	10.2	6100	9.84
R22 ; 230 V - 1 PH - 60 Hz				High Back Pressure	
Model	Displacement (cc/rev)	Cooling Capacity (Btu/Hr)	Input Current (Amp)	Input Power (Watts)	EER (Btu/W-Hr)
CK20K3-PFV	39.32	20000	9.6	2140	9.35
CK24K3-PFV	44.26	23500	11.0	2500	9.40
CK27K3-PFV	49.62	26500	12.9	2900	9.14
CK30K3-PFV	53.32	29500	14.5	3225	9.15
CR36K6-PFV	59.65	36500	16.5	3450	10.58
CR42K6-PFV	72.09	41900	17.9	3875	10.81
R22 ; 400 V - 3 PH - 60 Hz				High Back Pressure	
CR36K6-TFD	59.65	36500	5.5	3350	10.90
CR42K6-TFD	72.09	41500	5.8	3750	11.07

* 230V

Rating Conditions

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	BIS(ASRE/T)	45/7.2	131/55	95/35	115/46.0	95/35



CK3



KCG

Refrigeration Compressors Specifications

R134a ; 230 V - 1 PH - 50 Hz					High & Commercial Back Pressure		
Model	HP	Displacement (cc/rev)	Cooling Capacity at HBP (Btu/Hr)	Cooling Capacity at CBP (Btu/Hr)	Input Current at HBP (Amp)	Input Power at HBP (Watts)	Motor Circuit
KCE415HAG	1/8	4.49	1275	620	1.40	210	RSIR
KCE419HAG	1/6	5.79	1585	860	1.60	245	RSIR
KCE425HAG	1/5	7.58	2145	1075	2.30	360	CSIR
KCE432HAG	1/4	9.42	2690	1330	2.80	375	CSIR
KCE444HAG	3/8	12.05	3675	1880	3.20	525	CSIR
KCN463HAG	1/2	15.33	5250	3130	2.70	615	CSCR
KCJ467HAG	1/2+	18.27	5600	2830	3.85	675	CSIR
KCJ498HAG	3/4	25.91	8200	--	5.90	975	CSIR
R22 ; 230 V - 1 PH - 50 Hz					High & Commercial Back Pressure		
Model	HP	Displacement (cc/rev)	Cooling Capacity at HBP (Btu/Hr)	Cooling Capacity at CBP (Btu/Hr)	Input Current at HBP (Amp)	Input Power at HBP (Watts)	Motor Circuit
KCE443HAE	3/8	8.00	3600	1620	8.0	475	PSC/CSCR
KCE461HAE	1/2	11.50	5100	--	3.1	675	PSC/CSCR
KCN490HAE	3/4	15.33	7500	3800	4.5	930	PSC/CSCR
KCJ511HAE	1.0	18.27	9350	--	4.7	1020	PSC/CSCR
KCJ513HAE	1 1/4	25.91	12800	--	6.8	1440	PSC/CSCR
R134a ; 230 V - 1 PH - 60 Hz					High & Commercial Back Pressure		
Model	HP	Displacement (cc/rev)	Cooling Capacity at HBP (Btu/Hr)	Cooling Capacity at CBP (Btu/Hr)	Input Current at HBP (Amp)	Input Power at HBP (Watts)	Motor Circuit
KCE432HAG	1/4	9.42	3280	1730	2.80	470	CSIR
KCE444HAG	1/3	12.05	4275	2215	2.40	550	CSCR
KCN463HAG	1/2	15.33	6300	3443	3.65	810	CSCR
KCJ467HAG	1/2	18.27	6700	3400	4.20	820	CSIR
KCJ498HAG	3/4	25.91	9200	4650	6.00	1125	CSIR
R134a ; 230 V - 1 PH - 50 Hz					Low Back Pressure		
Model	HP	Cooling Capacity (Btu/Hr)		Displacement (cc/rev)	Input Current (Amp)	Input Power (Watts)	Motor Circuit
KCN372LAG	1/5	600		7.31	1.34	159	RSIR
KCN396LAG	1/4	800		9.00	1.85	205	CSIR
KCN411LAG	1/3	960		12.05	2.7	250	CSIR
KCN415LAG	3/8	1260		15.33	2	325	CSCR
KCH431LAG	3/4	2650		56.09	5	810	CSCR
KCH431LAG	3/4	2650		56.09	3	610	3Phase

Rating Conditions

Ambient Temperature		Evaporating Temperature		Condensing Temperature		Sub Cooled Liquid Temp Expansion Device		Suction Gas Temperature		Suction Pressure						Discharge Pressure					
										HFC-134a		CFC-12		HCFC-22		HFC-134a		CFC-12		HCFC-22	
⁰ F	⁰ C	⁰ F	⁰ C	⁰ F	⁰ C	⁰ F	⁰ C	⁰ F	⁰ C	psig	kg/cm ²	psig	kg/cm ²	psig	kg/cm ²	psig	kg/cm ²	psig	kg/cm ²	psig	kg/cm ²
High Back Pressure																					
95	35	45	7.2	130	54.4	115	46.1	95	35	40	2.8	42	2.9	77	5.4	196	13.8	180	12.6	300	21.1
Commercial Back Pressure																					
95	35	20	-6.7	130	54.4	115	46.1	95	35	18	1.3	---	---	---	---	196	13.8	---	---	---	---
Low Back Pressure																					
90	32	-10	-23.3	130	54.4	90	32	90	32	1.9	0.14	4.5	0.3	---	---	196	13.8	180	12.6	---	---



KCE



KCN

Refrigeration Compressors Specifications

R404A; 230 V - 1 PH - 50 Hz

Commercial Back Pressure

Model	HP	Displacement (CC/rev)	Cooling Capacity at HBP (Btu/Hr)	Cooling Capacity at CBP (Btu/Hr)	Input Current at HBP (Amp)	Input Power at HBP (Watts)	Motor Circuit
KCJ422CAL	1/3	8.00	3400	1800	2.8	510	CSIR
KCJ438CAL	1/2+	11.50	6125	3200	4.3	780	CSIR
KCJ461CAL	1	18.27	9670	5100	5.2	1160	CSCR
KCJ484CAL	1 1/3	25.91	13250	7000	7.4	1565	CSCR
KCM511CAL	2	40.80	18700	9000	7.8	1910	CSCR
KCM514CAL	2 1/2	51.47	24500	12000	11.0	2475	CSCR
KCM519CAL	3	59.65	30750	16100	15.2	2910	CSCR
KCM522CAL	3 1/2	72.80	35800	18300	15.4	3365	CSCR

R404A ; 230 V - 1 PH - 50 Hz

Low Back Pressure

Model	HP	Displacement (cc/rev)	Cooling Capacity (Btu/Hr)	Input Current (Amp)	Input Power (Watts)	Motor Circuit
KCJ430LAL	3/4	16.35	2425	3.2	580	CSCR
KCJ450LAL	1 1/4	32.64	4200	5	975	CSCR

Rating Conditions

Ambient Temperature		Evaporating Temperature		Condensing Temperature		Sub Cooled Liquid Temp Expansion Device		Suction Gas Temperature		Suction Pressure		Discharge Pressure	
										HFC-404A		HFC-404A	
⁰ F	⁰ C	⁰ F	⁰ C	⁰ F	⁰ C	⁰ F	⁰ C	⁰ F	⁰ C	psig	kg/cm ²	psig	kg/cm ²
High Back Pressure													
95	35	45	7.2	130	54.4	115	46.1	95	35	93.7	6.5	354	24.89
Commercial Back Pressure													
95	35	20	-6.7	130	54.4	115	46.1	95	35	55.6	3.9	354	24.89
Low Back Pressure													
90	32	-10	-23.3	130	54.4	90	32	90	32	24.6	1.73	354	24.89

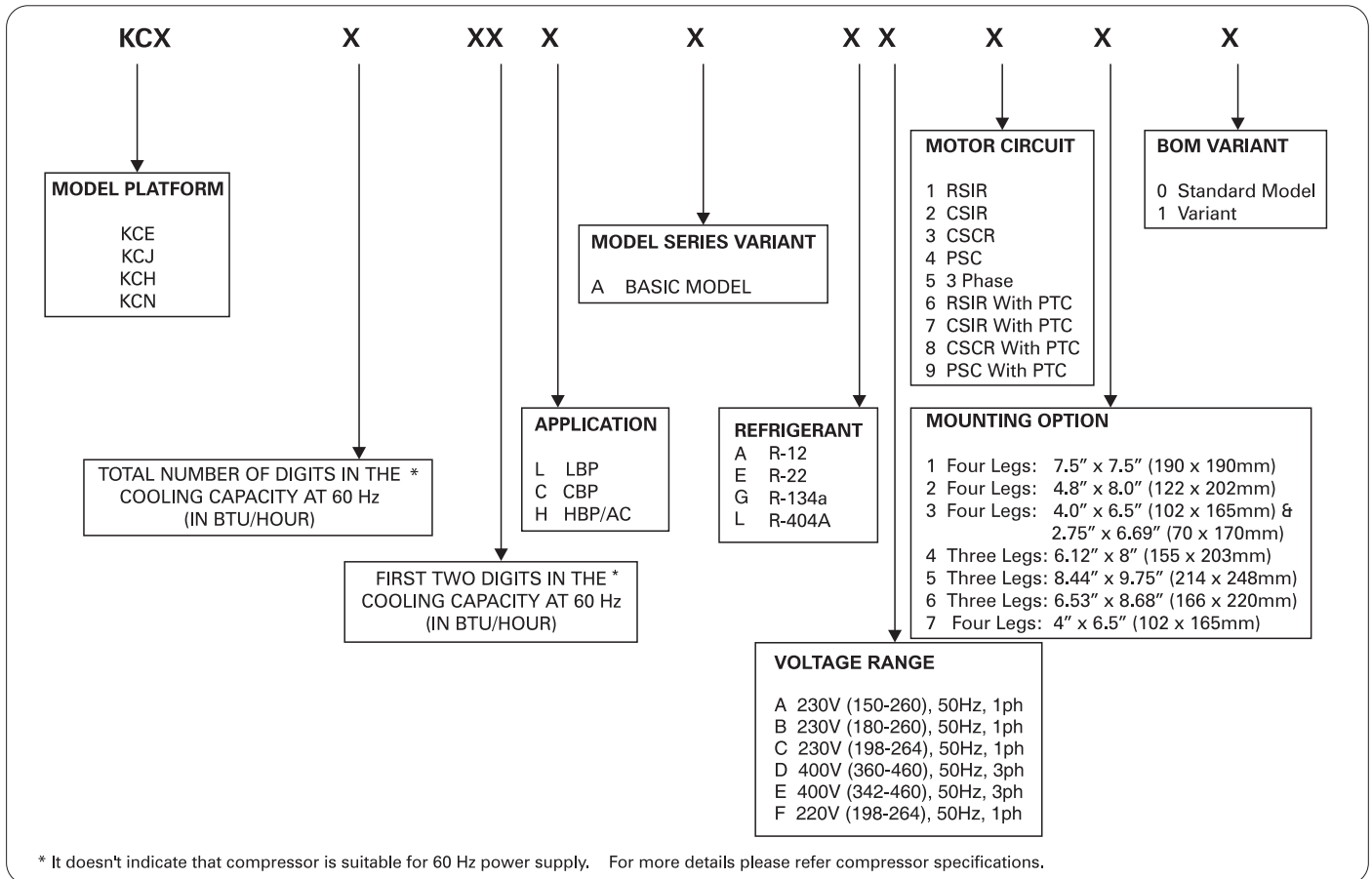


KCM

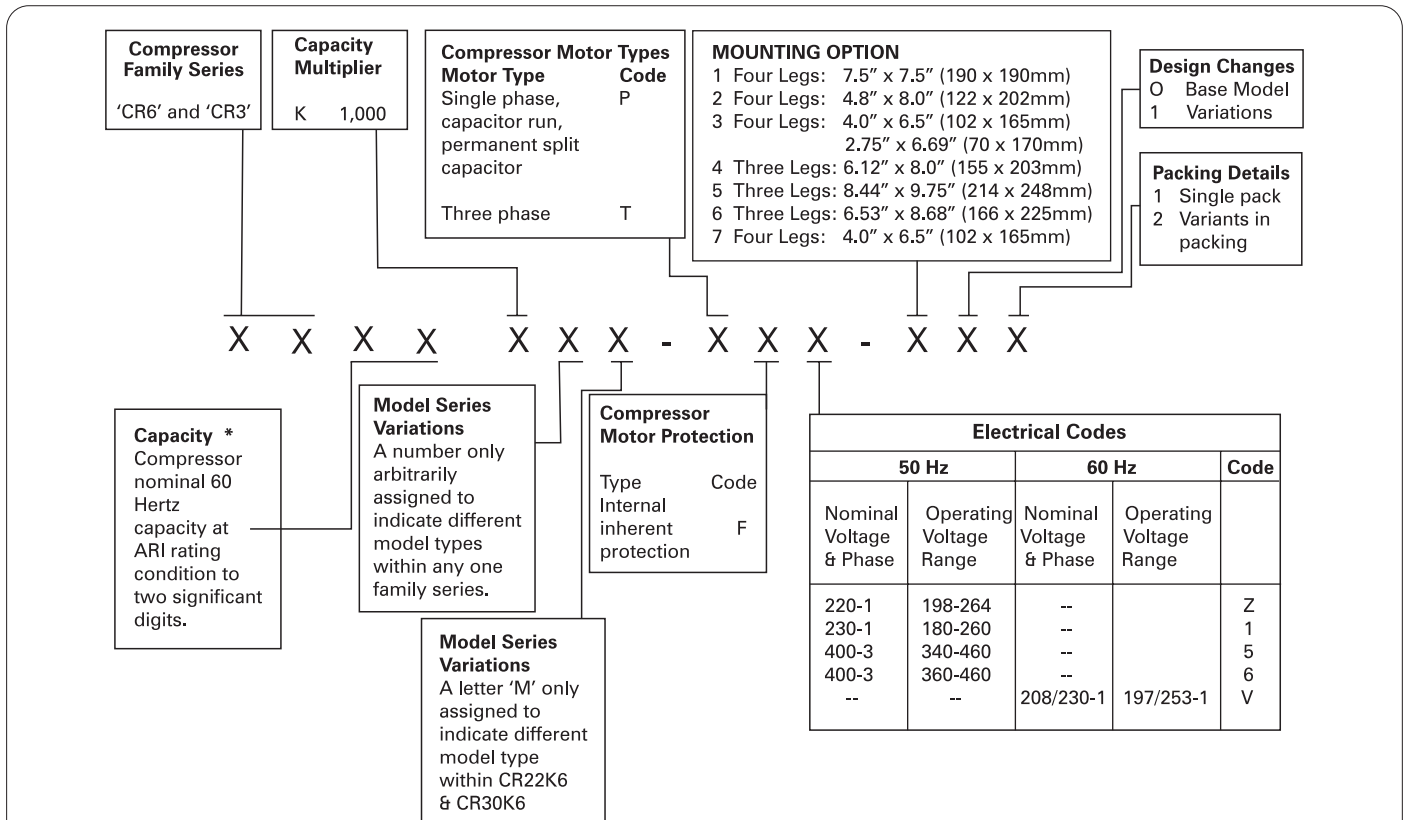


KCJ

KCX Series Compressor Nomenclature



CR6 & CK3 Series Compressor Nomenclature



* Used for nomenclature purpose only. Refer specification for 60 Hz model selection.

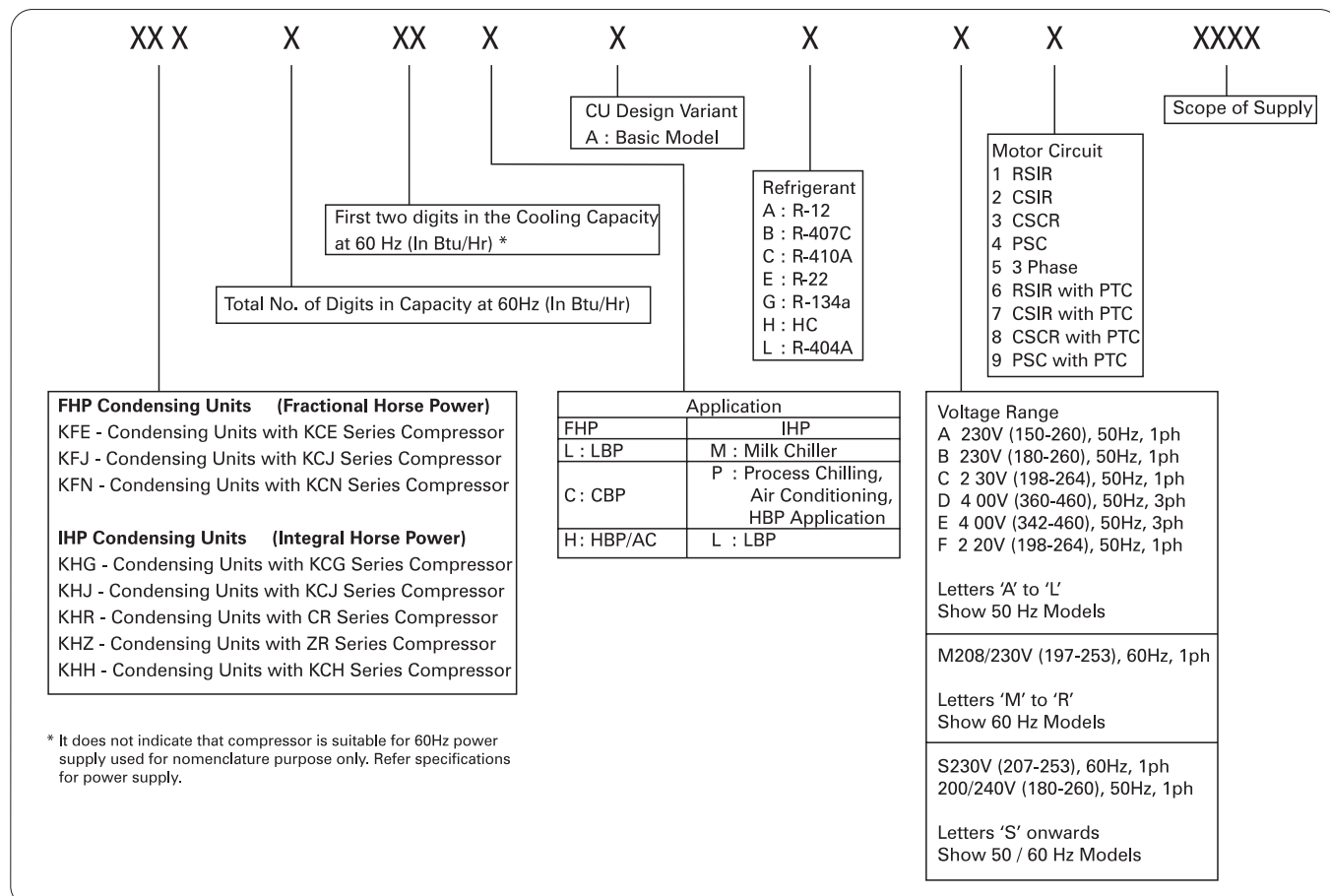
** Mounting dimensions in mm do not include first decimal value. Refer to dimensional drawings for details.

Integral HP Condensing Unit Specifications

Condensing unit Model	Compressor Model	Condensing Unit		Electrical V-Phase-Hz	Overall Dimensions L X H X W (mm)
		Capacity** (Btu/Hr)	Power (Watts)		
R-22 High Temperature – Integral Horse Power Condensing Units					
KHJ513PAE-B30820	KCJ513HAE-B420	12795	1525	230-1-50	653 X 470 X 667
KHR522PAE-B30820 KHR522MAE-B37D21	CR22K6M-PF1-131	19605	1835	230-1-50	575 X 625 X 815 586 X 625X 820
KHR530PAE-B30820 KHR530MAE-B37D21	CR30K6M-PF1-131	23783	2365	230-1-50	575 X 625 X 815 586 X 625X 820
KHR536PAE-D50820 KHR536MAE-D57D21	CR36K6-TF6-101	29129	2788	400-3-50	780 X 625 X 935 793 X 685 X 935
KHR536PAE-F30820 KHR536MAE-F37D21	CR36K6-PFZ-121	29288	2832	230-1-50	780 X 625 X 935 793 X 685 X 935
KHR542PAE-D50820 KHR542MAE-D57D21	CR42K6-TF6-101	32807	3404	400-3-50	780 X 625 X 935 793 X 685 X 935
KHG554PBE-D588A0 KHG554MAE-D5FDA1	KCG554HAE-D512	46350	4760	400-3-50	776 X 690 X 1200 785 X 690 X 1200
KHG562PBE-D588A0 KHG562MAE-D5FDA1	KCG562HAE-D512	51901	5583	400-3-50	655 X 676 X 1048 785 X 690 X 1200
KHR563PAE-E508A0 KHR563MAE-E57DA1	CRNQ0500-TFD-523	50830	5300	400-3-50	776 X 690 X 1200 785 X 690 X 1200
KHG572PBE-D588A0 KHG572MAE-D5FDA1	KCG572HAE-D512	57848 59774	6544 6480	400-3-50	655 X 676 X 1048 785 X 690 X 1200
KHZ572PAE-E50820 KHZ572MAE-E57D61	ZR72KC-TFD-522	59455	5295	380-3-50	770 X 742 X 1358 785 X 742 X 1348
KHZ581PAE-E50820 KHZ581MAE-E57D61	ZR81KC-TFD-522	67290	5950	380-3-50	770 X 742 X 1358 785 X 742 X 1348

** Capacity at rating conditions. Rating conditions mentioned on next page.

Condensing Unit Nomenclature



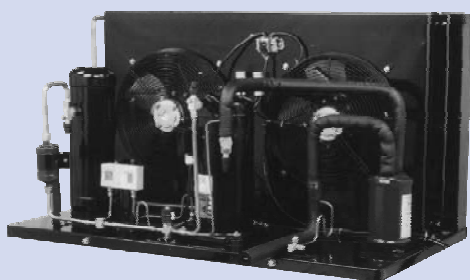
Fractional HP Condensing Unit Specifications

Condensing unit Model	Compressor Model	Condensing Unit		Electrical V-Phase-Hz	Overall Dimensions L X H X W (mm)
		Capacity** (Btu/Hr)	Power (Watts)		
R-134a - Low Temperature – Fractional Horse Power Condensing Units					
KFN372LAG-B20000	KCN372LAG-B230	700	185	230-1-50	412 X 250 X 285
KFN396LAG-B20000	KCN396LAG-B230	---	---	230-1-50	404 X 250 X 285
KFJ411LAG-B20000	KCJ411LAG-B220	1100	300	230-1-50	390 X 286 X 343
KFJ412LAG-B20000	KCJ412LAG-B220	1260	345	230-1-50	401 X 330 X 356
KFN415LAG-B30000	KCN415LAG-B330	1470	365	230-1-50	401 X 330 X 356
R-134a - High & Medium Temperature – Fractional Horse Power Condensing Units					
KFE419HAG-B10000	KCE419HAG-B330	1516	240	230-1-50	352 X 250 X 290
KFE432HAG-B20000	KCE432HAG-B230	2750	385	230-1-50	457 X 305 X 343
KFE444HAG-B30000	KCE444HAG-B330	3670	470	230-1-50	457 X 305 X 343
KFJ444HAG-B20000	KCJ444HAG-B220	3700	445	230-1-50	412 X 305 X 356
KFJ467HAG-B20000	KCJ467HAG-B220	5355	700	230-1-50	458 X 302 X 380
KFN463HAG-B30000	KCN463HAG-B330	4975	625	230-1-50	458X302X380
R- 22 - High Temperature – Fractional Horse Power Condensing Units					
KFE443HAE-B30000	KCE443HAE-B330	3710	515	230-1-50	457 X 305 X 343
KFE461HAE-B30000	KCE461HAE-B470	5470	740	230-1-50	458 X 305 X 380
KFJ511HAE-B30000	KCJ511HAE-B420	9927	1063	230-1-50	492 X 385 X 435

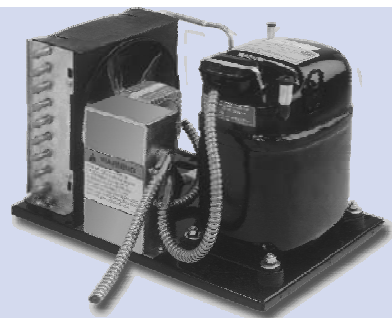
** Capacity at rating conditions.

Rating Conditions

Conditions	Ambient		Evaporating Temperature		Return Gas Temperature		Sub Cooling	
	°F	°C	°F	°C	°F	°C	°F	°C
High Temperature	95	35	45	7.2	65	18.3	5	3
Low Temperature	90	32	-10	-23.3	65	18.3	5	3



IHP CU



FHP CU



As we are constantly endeavoring to improve the performance of our models, the specifications mentioned here are subject to change from time to time.
The Emerson logo is a trademark and a service mark of Emerson Electric Co.

Emerson Climate Technologies (India) Limited

Registered & Head Office:

1202/1, Ghole Road, Pune - 411 004.

Phone: +91 (20) 2553 4998, 2553 4988

Fax: +91 (20) 2553 6350

E-mail: emerson.ats@emersonclimatetechindia.com

Works:

Karad-Dhebevadi Road, Karad - 415 110, Maharashtra

Phone: +91 (2164) 241 413, 241 002

Fax: +91 (2164) 241 122

Atit-Pali Road, Atit - 415 519, Maharashtra

Phone: +91 (2162) 262 068, 262 077

Fax: +91 (2162) 262 069

EMERSON. CONSIDER IT SOLVED.™