

HEAT PUMP

TEMPSTAR[®]
Heating and Cooling Products



Representative photo only, some models may vary in appearance.



Rated in accordance with ARI Standard 240. Certification applies only when used with proper components as listed with ARI.

2 THRU 3 1/2 TONS SPLIT SYSTEM 13 - 14 SEER

FEATURES

- 14.2 SEER Cooling Efficiency with selected coils
- Copeland[®] Compliant Scroll[®] Compressor
- Suction Line Accumulators on All Models
- External Sweat Valve Refrigerant Connection
- Copper Tube/Aluminum Fin Coil Employing "State of the Art" High Efficiency Design
- Prepainted Condenser Fins For Enhanced Corrosion Protection
- Non-bleed Thermostatic Expansion Valve
- Auto Reset Low Pressure Switch
- External High and Low Refrigerant Service Ports
- Discharge Muffler
- Bi-Flow Liquid Line Filter Drier
- Factory Charged with R-22
- Top Discharge for Quieter Operation
- Integrated 24V Defrost Control Includes Anti-Short Cycle Timer and Soft Changeover Feature
- Fan Motor In-Line Disconnect Plug
- 10 Year Limited Compressor Warranty



428 21 2502 03

UNIT SPECIFICATIONS

Model Number	CH9624VKB	CH9630VKB	CH9636VKB	CH9642VKB	
Electrical	Voltage-Phase-Hz				
Data	208/230-1-60				
	Voltage Range (Min-Max)				
	197/253				
	Minimum Circuit Ampacity	13.6	16.0	19.2	23.8
	Wire Size / Max. Length (AWG Cu)	#14/37'	#14/31'	#12/40'	#12/31'
	Time Delay Fuse (Amps)	20	20	30	30
	Max. Fuse or HACR Breaker Size (Amps)	20	25	35	40
Compressor	Voltage-Phase-Hz				
Data	208/230-1-60				
	Full Running / Lock Rotor Amps	10.3/56.0	12.2/67.0	14.7/83.0	20/104
	Crankcase Heater (Type)	NONE			
	Start Device	NONE			
Fan Data	Voltage-Phase-Hz				
	208/230-1-60				
	Horsepower/Type	1/8/PSC	1/8/PSC	1/8/PSC	1/8/PSC
	Full Load/Lock Rotor Amps.	.6/1.5	.6/1.5	.8/1.5	.8/1.5
	Speeds / CFM (Max)	1 / 2200	1 / 2200	1 / 3000	1 / 3000
Outdoor	Total Face Area (Sq. Ft.)	16.6	16.6	18.7	25.39
Coil Data	Fins Per Inch/Rows	18/2		18/2	22/2
	Tube Diameter (OD)	3/8"			
	Control Device	TXV			
Refrigerant	Suction (I.D.)	3/4"		7/8"	
Connection	Liquid (I.D.)	5/16"			3/8"
And Charge Data	Factory Charge R-22 (Oz)	180	183	195	260
Weights	Shipping/Net (Lbs)	196 / 209	197 / 207	230 / 238	275 / 286

PERFORMANCE DATA SINGLE PHASE

Outdoor	Indoor Model	Cooling				47 Heating			17 Heating			dBELS
		BTUH	SEER	EER	S/T	BTUH	COP	HSPF	BTUH	COP	CFM	
CH9624VKB	FCX2400A	23,600	13.05	11.5	.76	23,800	3.24	8.00	13,800	2.04	850	74
	EXA*24(B15,F19)A	23,600	13.05	11.5	.76	23,800	3.24	8.00	13,800	2.04	850	
	EXA*24F19A & EV12F1900A	24,000	14.20	12.5	.77	23,400	3.50	8.50	13,800	2.25	850	
CH9630VKB	FCX3600A	28,000	13.05	11.3	.79	28,400	3.38	8.00	16,800	2.15	1050	76
	EXA*36(F19,J22)A	28,000	13.05	11.3	.79	28,400	3.38	8.00	16,800	2.15	1050	
	EXA*36F19A & EV12F1900A	28,400	14.05	12.2	.79	28,000	3.50	8.50	16,800	2.25	1050	
	EXA*36J22A & EV16J2200A	28,400	14.20	12.4	.79	28,000	3.50	8.50	16,800	2.25	1050	
CH9636VKB	FCX3600A	34,600	13.05	11.1	.77	35,000	3.5	8.00	21,200	2.15	1250	76
	EXA*36(F19,J22)A	34,600	13.05	11.1	.77	35,000	3.5	8.00	21,200	2.15	1250	
	EXA*36F19A & EV12F1900A	34,600	14.00	11.7	.78	34,600	3.5	8.50	21,200	2.25	1250	
	EXA*36J22A & EV16J2200A	34,600	14.05	11.7	.78	34,600	3.5	8.50	21,200	2.25	1250	
CH9642VKB	FCX4800A	41,000	13.05	11.3	.74	41,000	3.5	8.00	22,800	2.08	1300	76
	FCX6000A	41,500	13.05	11.3	.74	41,500	3.5	8.00	23,000	2.10	1300	
	EXA*48N26A	41,000	13.05	11.3	.74	41,000	3.5	8.00	22,800	2.08	1300	
	EXA*48N26A & EV20N2600A	41,500	14.05	12.1	.75	40,500	3.5	8.50	22,800	2.25	1300	
	EXA*60N26A	41,500	13.05	11.3	.74	41,500	3.5	8.00	23,000	2.10	1300	

* - A = Loose Coil, D = Cased Upflow / Downflow Coil, M = Cased Downflow / Upflow / Horizontal Coil

INDOOR TEMPERATURE CORRECTION TABLE								
Entering Indoor D.B. °F.	Correction Factor	Entering Indoor Wet Bulb °F.						
		59	61	63	65	67	69	71
70	Total Cap. Mult.	.90	.93	.96	.99	1.02	-	-
	Sens Cap. Mult.	.86	.85	.82	.77	.70	-	-
75	Total Cap. Multi.	.89	.92	.95	.98	1.01	1.04	-
	Sens Cap. Mult.	1.04	1.03	1.00	.95	.88	.78	-
80	Total Cap. Mult.	.88	.91	.94	.97	1.00	1.03	1.06
	Sens Cap. Mult.	1.18	1.17	1.14	1.08	1.00	.89	.73
85	Total Cap. Mult.	-	.90	.93	.96	.99	1.02	1.05
	Sens Cap. Mult.	-	1.29	1.26	1.20	1.11	.98	.81

Bold Type = approximately 50% Relative Humidity.

INDOOR AIR FLOW CORRECTION TABLE					
% Rated Air	90	95	100	105	110
Total Cap. Mult.	.98	.99	1.00	1.01	1.03
Sens Cap. Mult.	.95	.98	1.00	1.03	1.05

VOLTAGE CORRECTION FACTORS		
Volts	Capacity	Watts
208	.98	.99

EXTENDED REFRIGERANT LINE CORRECTION FACTORS					
Varying Line Length in Feet vs. Total Capacity Multiplier					
25	50	75	100	125	150
1.00	.99	.98	.96	.94	.92

REFRIGERANT CHARGE DATA

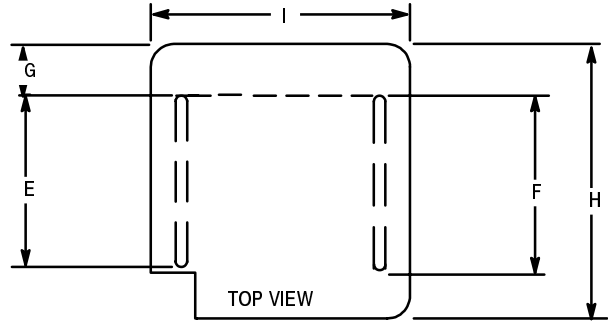
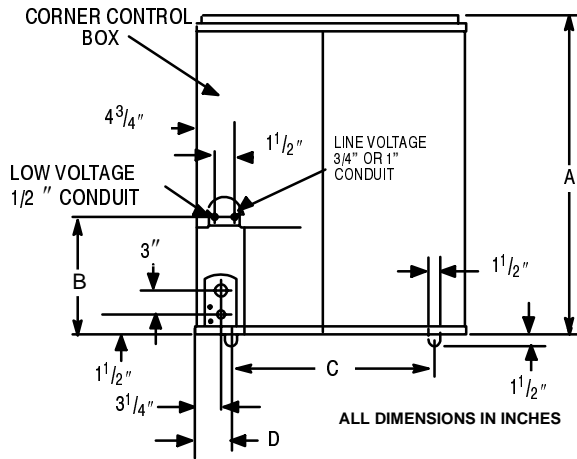
“V” Sweat valve models are factory charged with R-22 for outdoor unit, 25' of interconnecting tubing and matching indoor section.

Refrigerant charge correction per foot of interconnecting tubing:

1/4" O.D. = .25 oz.; 5/16" O.D. = .45 oz.; 3/8" O.D. = .60 oz.; 1/2" O.D. = .75 oz.

MODEL NUMBER IDENTIFICATION GUIDE							
MODEL NUMBER	C	H	96	24	V	K	B
PRODUCT FAMILY	C = Condenser B = Blower						SALES CODE
PRODUCT TYPE	A = Air Conditioning H = Heat Pump C = Cabinet						ELECTRICAL K = 208/230-1-60
SERIES	96 = 9600 Series						CONNECTIONS V = Sweat/Valve
							CAPACITY MBTUH 24 = 24,000

UNIT DIMENSIONS



Model	A	B	C	D	E	F	G	H	I
CH9624VKB	30	14-3/4	21-3/4	4	17-5/8	18-3/4	5-1/2	30	30
CH9630VKB	30	14-3/4	21-3/4	4	17-5/8	18-3/4	5-1/2	30	30
CH9636VKB	30	14-3/4	25-1/2	4-1/4	23-1/2	24-1/2	5-1/2	36	34
CH9642VKB	38	24-3/4	25-1/2	4-1/4	23-1/2	24-1/2	5-1/2	36	34

ACCESSORIES

Part Number	Description	Use With
708849	Compressor Crankcase Heater Solid State "Stick On"	All Models
708938	Compressor Start Device Solid State PTCR Type	All 1 Phase Models
NAXWR01DFA	Fossil Fuel Kit	All Models

TEMPSTAR®
Heating and Cooling Products

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RESIDENTIAL AND COMMERCIAL SYSTEMS • SPLIT SYSTEMS • PACKAGED AIR CONDITIONERS •
COMBINATION GAS / ELECTRIC UNITS • HEAT PUMPS • AIR HANDLERS • MANUFACTURED HOME AIR
CONDITIONERS • GAS, OIL AND ELECTRIC FURNACES