Heating & Air Conditioning

Amana®

LASTS AND LASTS AND LASTS.™

Specification Sheet

10 SEER

Cooling Capacity:
18,000 - 60,000 BTUH

LIMITED WARRANTY

- 5-Year Limited—Compressor
- 5-Year Limited—Parts

5-YEAR COMPRESSOR AND PARTS WARRANTY

Asure℠
EXTENDED SERVICE PLAN

VCA Distinctions™

Split System Air Conditioner

The Amana® Distinctions™ brand VCA Air Conditioners offer economy, dependable cooling comfort, high-efficiency performance, application flexibility and installation and service ease. Cost-effective engineering, low operating costs, reliable components and quality manufacturing make VCA units perfect for the value-minded homeowner or cost-conscious builder.

Energy-Efficient Compressor. Energy-saving design reduces internal resistance and friction and increases operating efficiency. Internal parts are spring isolated, and the entire compressor is mounted on rubber cushions to help absorb vibrations.

Quiet Condenser Fan with Vertical Air Discharge. Efficient fan and motor reduces operating sounds and large blades move high volumes of air with lower power requirement. Motor is sealed against the weather. Draw through air flow directs operating sound and hot air away from neighbors, shrubs and buildings. Adds to installation versatility.

Copper and Aluminum Coils. The VCA condenser coil features enhanced aluminum fins. Our condenser and evaporator coils are made from seamless copper tubing. Tubing life is extended and fewer leaks experienced because we use only refrigeration-grade copper tubing.

Maximum Economy and Performance. Simplicity of design and construction make this unit economical to own, as well as operate. Cost-effective engineering eliminates components that add cost and weight without improving performance. The balance of economy and efficiency makes VCA units ideal for replacement or new construction. The VCA line delivers a SEER of 10 when paired with Amana® brand evaporator coils.

Efficient Cubed Coil. This space-saving design provides more active square feet of cooling surface for increased cooling efficiency. The compact cubed coil forms the body of the unit.

Liquid Line Filter Drier. Standard protection adds to reliability by helping keep refrigerant clean and dry, which ensures longer life for the compressor and expansion devices.

Service Valves and Gauge Ports. Fully accessible from outside the unit to speed installation and service. Pressures can be checked while the unit is running without disturbing airflow.

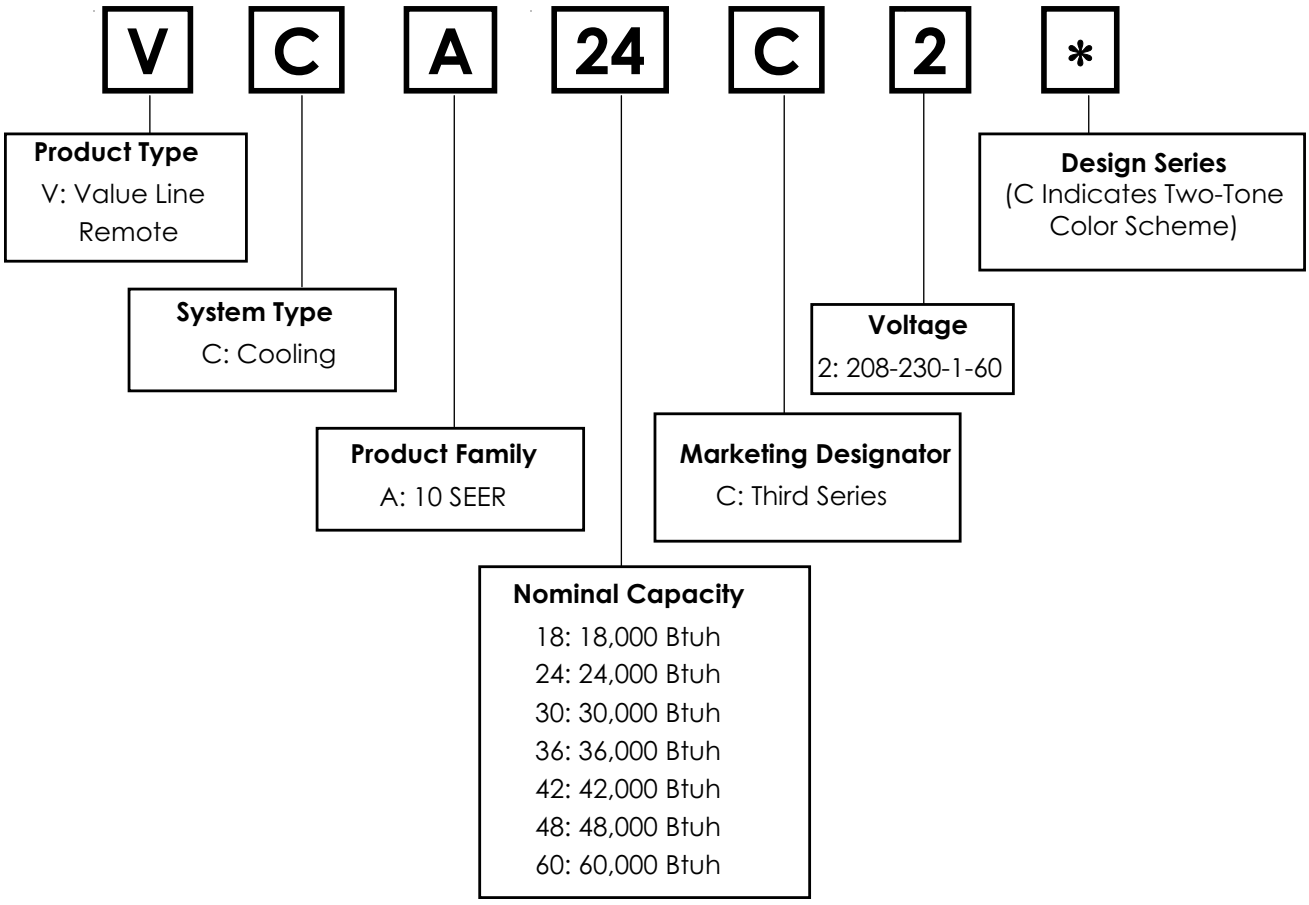
Optional "A" Coils are shipped with leak-proof plastic drain pans attached. All coils have sweat connections and are fully leak tested before leaving the factory.

Accessible Design. Solid brass service valves and gauge ports angled at 45° with enough clearance to allow quick and easy servicing of the unit. Service panel swings open at the corner for effective service from two directions. Inside, a pre-wired control panel speeds installation. Minimal quantity of numbered and color-coded wires to assure fast field wiring. Compressor and tubing access from side and top give plenty of internal room for installation and removal of parts.

Easy to Service. Refrigerant line connections and service valves are easy to reach. Embossments in the bottom allow drainage and air flow under the unit to reduce corrosion. Heavy vinyl-coated grilles protect the fan, motor and coil. Controls and service valves can be serviced without interrupting unit operation.

Cabinet Features. Rounded lines and monochromatic coatings blend well with buildings and landscape. Painted sheet metal cabinet maintains its attractive finish for many years. Cabinet and screws resist rust and fading due to ultraviolet rays. When properly anchored, meets the 2001 Florida Building Code unit integrity requirements for hurricane-type winds.

Nomenclature



Specifications for C2B Models

	VCA18C2B	VCA24C2B	VCA30C2B	VCA36C2B	VCA42C2B	VCA48C2B	VCA60C2B
Cooling Capacities							
Cooling Efficiency Capacity (BTUH)	18,000	23,400	28,200	34,000	39,000	45,000	60,000
SEER	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Compressor							
R.L. AMPS	8.59	9.81	13.72	14.87	17.05	18.27	26.0
L.R. AMPS	49.00	56.00	75.00	96.00	103.00	102.00	150.0
Condenser Fan Motor							
Horsepower	1/6	1/6	1/6	1/6	1/6	1/4	1/4
R.L. AMPS	1.0	1.0	1.0	1.0	1.0	1.5	1.5
L.R. AMPS	1.8	1.8	1.8	1.8	1.81	3.3	3.3
Refrigeration System							
Liquid Line* ("O.D.)	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Suction Line ("O.D.)	3/4	3/4	3/4	3/4	7/8	7/8	1-1/8
Refrigerant Charge (oz.)	51.0	63.0	64.0	80.0	92.00	115.00	116.0*
Miscellaneous Data							
Superheat Charging	7° ± 2°	7° ± 2°	7° ± 2°	7° ± 2°	7° ± 2°	7° ± 2°	7° ± 2°
Sound Rating	72	74	75	76	76	76	76
Approximate Shipping Weight (lbs.)	144	145	149	172	190	205	200
Shipped w/ Orifice Size	0.053	0.059	0.067	0.071	0.076	0.082	0.092
Electrical							
Power Supply	208/230-60-1						
Minimum Circuit Ampacity	11.74	13.26	18.15	19.59	23.44	24.34	34.00
Maximum Overcurrent Device	20	20	30	35	40	40	60
Electrical Conduit Size							
Power Supply (in.)	1/2 or 3/4						
Low Voltage (in.)	1/2						

NOTE: *Unit is charged with refrigerant for 15' of given liquid line. System charge must be adjusted per Installation Instructions Final Charge Procedure.

Dimensions

	Square Base	Height
VCA18C2B	22½"	23"
VCA24C2B	22½"	23"
VCA30C2B	22½"	25"
VCA36C2B	22½"	29"
VCA42C2B	22½"	31"
VCA48C2B	29½"	29"
VCA60C2B	29½"	29"

Specifications for C2C Models

	VCA18C2C	VCA24C2C	VCA30C2C	VCA36C2C	VCA42C2C	VCA48C2C	VCA60C2C
Cooling Capacities							
Cooling Efficiency Capacity (BTUH)	18,000	23,400	28,200	34,000	39,000	45,000	60,000
SEER	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Compressor							
R.L. AMPS	8.59	9.81	13.72	14.87	17.05	18.27	26.0
L.R. AMPS	49.00	56.00	75.00	96.00	105.00	102.00	150.0
Condenser Fan Motor							
Horsepower	1/6	1/6	1/6	1/6	1/6	1/4	1/4
R.L. AMPS	1.0	1.0	1.0	1.0	1.0	1.5	1.5
L.R. AMPS	1.8	1.8	1.8	1.8	1.81	3.3	3.3
Refrigeration System							
Liquid Line* ("O.D.)	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Suction Line ("O.D.)	3/4	3/4	3/4	3/4	7/8	7/8	1-1/8
Refrigerant Charge (oz.)	51.0	63.0	65.0	80.0	90.00	116.00	116.0*
Miscellaneous Data							
Superheat Charging	7° ± 2°	7° ± 2°	7° ± 2°	7° ± 2°	7° ± 2°	7° ± 2°	7° ± 2°
Sound Rating	72	74	75	76	76	76	76
Approximate Shipping Weight (lbs.)	144	145	149	172	190	205	200
Shipped w/ Orifice Size	0.053	0.059	0.067	0.071	0.076	0.082	0.092
Electrical							
Power Supply	208/230-60-1						
Minimum Circuit Ampacity	11.74	13.26	18.15	19.59	22.31	24.34	34.00
Maximum Overcurrent Device	20	20	30	35	40	40	60
Electrical Conduit Size							
Power Supply (in.)	1/2 or 3/4						
Low Voltage (in.)	1/2						

NOTE: *Unit is charged with refrigerant for 15' of given liquid line. System charge must be adjusted per Installation Instructions Final Charge Procedure.

Dimensions

	Square Base	Height
VCA18C2C	22½"	23"
VCA24C2C	22½"	23"
VCA30C2C	22½"	25"
VCA36C2C	22½"	29"
VCA42C2C	22½"	31"
VCA48C2C	29½"	29"
VCA60C2C	29½"	29"

Cooling Specifications

VCA18C2* / CA*F018*2* Conditions: 80° ID DB, 67° ID WB @ 600 CFM				
Outdoor Temp. ° F.	**Total Btuh**	**Sensible Btuh**	**Latent Btuh**	**Total Watts**
75°	19,350	12,641	6,709	1,694
80°	19,125	12,721	6,404	1,719
85°	18,900	12,796	6,104	1,744
90°	18,450	12,856	5,594	1,839
95°	**18,000**	**12,899**	**5,101**	**1,935**
100°	17,550	12,815	4,735	1,973
105°	17,100	12,718	4,382	2,410
110°	16,470	12,301	4,169	2,077
115°	15,840	11,880	3,960	2,142
TVA Conditions @ 95° OD DB, 75° ID DB, 63° ID WB				
95	**16680**	**12843**	**3836**	**1864**

VCA24C2* / CA*F025*2* Conditions: 80° ID DB, 67° ID WB @ 800 CFM				
Outdoor Temp. ° F.	**Total Btuh**	**Sensible Btuh**	**Latent Btuh**	**Total Watts**
75°	24,940	16,934	8,006	2,166
80°	24,360	17,059	7,301	2,316
85°	23,780	17,159	6,621	2,466
90°	23,490	17,222	6,268	2,528
95°	**23,200**	**17,280**	**5,920**	**2,590**
100°	22,620	17,167	5,453	2,643
105°	22,040	17,038	5,002	2,950
110°	21,228	16,479	4,749	2,741
115°	20,416	15,915	4,501	2,787
TVA Conditions @ 95° OD DB, 75° ID DB, 63° ID WB				
95	**19843**	**15279**	**4564**	**2432**

VCA30C2* / CA*F030*2* Conditions: 80° ID DB, 67° ID WB @ 1,000 CFM				
Outdoor Temp. ° F.	**Total Btuh**	**Sensible Btuh**	**Latent Btuh**	**Total Watts**
75°	30,315	20,151	10,164	2,683
80°	29,963	20,278	9,684	2,783
85°	29,610	20,398	9,212	2,882
90°	28,905	20,494	8,411	2,970
95°	**28,200**	**20,562**	**7,638**	**3,057**
100°	27,495	20,428	7,067	3,200
105°	26,790	20,274	6,516	3,600
110°	25,803	19,609	6,194	3,400
115°	24,816	18,938	5,878	3,457
TVA Conditions @ 95° OD DB, 75° ID DB, 63° ID WB				
95	**26131**	**20382**	**5749**	**3089**

VCA36C2* / CA*F037*2* Conditions: 80° ID DB, 67° ID WB @ 1,200 CFM				
Outdoor Temp. ° F.	**Total Btuh**	**Sensible Btuh**	**Latent Btuh**	**Total Watts**
75°	35,700	23,629	12,071	3,430
80°	35,275	23,645	11,630	3,538
85°	34,850	23,653	11,197	3,647
90°	34,425	23,741	10,684	3,742
95°	**34,000**	**23,820**	**10,180**	**3,838**
100°	33,150	23,665	9,485	3,919
105°	32,300	23,486	8,814	4,200
110°	31,110	22,716	8,394	4,071
115°	29,920	21,938	7,982	4,141
TVA Conditions @ 95° OD DB, 75° ID DB, 63° ID WB				
95	**29080**	**20937**	**8142**	**3595**

VCA42C2* / CA*F042*2* Conditions: 80° ID DB, 67° ID WB @ 1,400 CFM				
Outdoor Temp. ° F.	**Total Btuh**	**Sensible Btuh**	**Latent Btuh**	**Total Watts**
75°	40,950	28,163	12,787	4,754
80°	40,463	28,181	12,281	4,465
85°	39,975	28,191	11,784	4,176
90°	39,488	28,296	11,191	4,288
95°	**39,000**	**28,390**	**10,610**	**4,400**
100°	38,025	28,205	9,820	4,495
105°	37,050	27,992	9,058	5,040
110°	35,685	27,074	8,611	4,672
115°	34,320	26,147	8,173	4,754
TVA Conditions @ 95° OD DB, 75° ID DB, 63° ID WB				
95	**33,356**	**25,017**	**8,339**	**4,222**

VCA48C2* / CA*F060*2* Conditions: 80° ID DB, 67° ID WB @ 1,600 CFM				
Outdoor Temp. ° F.	**Total Btuh**	**Sensible Btuh**	**Latent Btuh**	**Total Watts**
75°	47,250	32,483	14,767	4,168
80°	46,688	32,504	14,183	4,296
85°	46,125	32,516	13,609	4,425
90°	45,563	32,637	12,926	4,538
95°	45,000	32,745	12,255	4,652
100°	43,875	32,531	11,344	4,753
105°	42,750	32,287	10,463	6,360
110°	41,175	31,227	9,948	4,933
115°	39,600	30,158	9,442	5,011
TVA Conditions @ 95° OD DB, 75° ID DB, 63° ID WB				
95	**44024**	**34779**	**9245**	**4289**

Cooling Specifications (cont.)

VCA60C2* / CA*F060*2* Conditions: 80° ID DB, 67° ID WB @ 1,800 CFM				
Outdoor Temp. ° F.	**Total Btuh**	**Sensible Btuh**	**Latent Btuh**	**Total Watts**
75°	58,170	38,854	19,316	5,691
80°	57,478	38,880	18,598	5,871
85°	56,785	38,894	17,891	6,052
90°	56,093	39,038	17,054	6,211
95°	**55,400**	**39,168**	**16,232**	**6,370**
100°	54,015	38,912	15,103	6,505
105°	52,630	38,619	14,011	3,320
110°	50,691	37,352	13,339	6,757
115°	48,752	36,074	12,678	6,874
TVA Conditions @ 95° OD DB, 75° ID DB, 63° ID WB				
95	**52,876**	**41,878**	**10,998**	**6,168**

Performance Ratings

Condenser	Coil or Air Handler	Total BTUH	Sensible BTUH	EER	SEER	ARI Ref. #	Decibels
VCA18C2*	ARPF024-00B-1*	17,500	12,600	9.15	10.00	468736	73
	ARPT024-00*-1*	17,500	12,600	9.15	10.00	468196	73
	ARUF018-00*-1*	17,500	12,600	9.15	10.00	405462	73
	CA*F018*2*+BDK	17,500	12,600	9.00	10.00	531647	73
	CA*F025*2*+BDK	17,500	12,600	9.00	10.00	504723	73
	CA*F025*2*+MBR0800**-1	17,500	12,600	9.15	10.00	517658	73
	CA*F030*2*+BDK	17,500	12,600	9.00	10.00	504725	73
	CA*F030*2*+MBR0800**-1	17,500	12,600	9.15	10.00	517659	73
	CCH24FCD+BDK	17,000	12,200	9.00	10.00	405459	73
	CCH30FCD+BDK	17,600	12,700	9.25	10.00	405453	73
	CH*F024*2*+BDK	17,000	12,200	9.00	10.00	504727	73
	CH*F024*2*+MBR0800**-1	17,000	12,200	9.15	10.00	517684	73
	CH*F030*2*+BBA24*2*	17,300	12,500	9.15	10.00	504728	73
	CH*F030*2*+BDK	17,300	12,500	9.00	10.00	504729	73
	CH*F030*2*+MBR0800**-1	17,300	12,500	9.15	10.00	517673	73
VCA24C2*	ARPF024-00B-1*	24,000	17,800	9.00	10.00	468758	73
	ARPT024-00*-1*	24,000	17,800	9.00	10.00	468192	73
	ARUF024-00*-1*	24,000	17,800	9.00	10.00	405477	73
	CA*F025*2*+BDK	23,400	17,300	9.00	10.00	531646	73
	CA*F025*2*+MBR0800**-1	23,400	17,300	9.00	10.00	531653	73
	CA*F030*2*+BDK	23,800	17,700	9.00	10.00	504731	73
	CA*F030*2*+MBR0800**-1	23,600	17,500	9.00	10.00	517664	73
	CA*F037*2*+BDK	24,200	17,900	9.10	10.00	504733	73
	CA*F037*2*+MBR1200**-1	24,200	17,900	9.10	10.00	517674	73
	CCH30FCD+BDK	24,000	17,800	9.00	10.00	405466	73
	CCH36FCD+BDK	24,200	17,900	9.10	10.00	405475	73
	CH*F024*2*+BDK	23,800	17,600	9.10	10.00	504735	73
	CH*F024*2*+MBR0800**-1	23,800	17,600	9.10	10.00	517669	73
	CH*F030*2*+BBA24*2*	24,000	17,800	9.10	10.00	504736	73
	CH*F030*2*+BDK	24,000	17,800	9.10	10.00	504737	73
	CH*F030*2*+MBR0800**-1	24,000	17,800	9.10	10.00	517660	73
	CH*F036*2*+MBR1200**-1	24,200	17,900	9.10	10.00	517959	73
VCA30C2*	ARPT032-00*-1*	27,200	19,900	9.00	10.00	468188	73
	ARUF032-00*-1*	27,200	19,900	9.00	10.00	405488	73
	CA*F030*2*+BDK	27,800	20,200	9.00	10.00	531652	73
	CA*F030*2*+MBR0800**-1	28,000	20,400	9.00	10.00	531649	73
	CA*F037*2*+BDK	27,200	19,900	9.00	10.00	504741	73
	CA*F037*2*+MBR1200**-1	27,200	19,900	9.00	10.00	517668	73
	CA*F042*2*+BDK	27,200	19,900	9.00	10.00	504743	73
	CA*F042*2*+MBR1200**-1	27,200	19,900	9.00	10.00	517663	73
	CH*F036*2*+MBR1200**-1	27,000	19,700	9.00	10.00	517960	73
	CH*F037*2*+BBA36*2*	27,000	19,700	9.00	10.00	504744	73
	CH*F042*2*+BBA36*2*	27,200	19,900	9.00	10.00	504746	73
	CH*F042*2*+MBR1200**-1	27,200	19,900	9.00	10.00	517692	73

Performance Ratings (cont.)

Condenser	Coil or Air Handler	Total BTUH	Sensible BTUH	EER	SEER	ARI Ref. #	Decibels
VCA36C2*	ARPF048-00B-1*	34,200	23,900	9.00	10.00	468732	76
	ARPT042-00*-1*	34,200	23,900	9.00	10.00	468194	76
	ARUF042-00*-1*	34,200	23,900	9.00	10.00	405510	76
	CA*F036*2*+BDK	34,000	23,800	9.00	10.00	531655	76
	CA*F037*2*+MBR1200**-1	34,000	23,800	9.00	10.00	531648	76
	CA*F042*2*+BDK	34,000	23,800	9.00	10.00	504748	76
	CA*F042*2*+MBR1200**-1	34,000	23,800	9.00	10.00	517683	76
	CA*F049*2*+BDK	34,200	23,900	9.00	10.00	504750	76
	CA*F049*2*+MBR1600**-1	34,400	24,100	9.00	10.00	517666	76
	CCH36FCD+BDK	33,200	23,200	9.00	10.00	405511	76
	CCH48FCD+BDK	34,400	24,100	9.00	10.00	405514	76
	CH*F036*2*+MBR1200**-1	33,800	23,700	9.00	10.00	517961	76
	CH*F042*2*+BDK	34,000	23,800	9.00	10.00	504754	76
	CH*F042*2*+MBR1200**-1	34,000	23,800	9.00	10.00	517687	76
	CH*F048*2*+BDK	34,000	23,800	9.00	10.00	504756	76
	CH*F048*2*+MBR1600**-1	34,000	23,800	9.00	10.00	517691	76
VCA42C2*	ARPT042-00*-1*	39,000	28,500	9.15	10.00	468189	76
	ARUF042-00*-1*	39,000	28,500	9.15	10.00	405520	76
	CA*F042*2*+BDK	38,500	28,100	9.00	10.00	531651	76
	CA*F042*2*+MBR1200**-1	38,500	28,100	9.00	10.00	517661	76
	CA*F049*2*+BDK	38,500	28,100	9.00	10.00	504759	76
	CA*F049*2*+MBR1600**-1	39,000	28,500	9.15	10.00	517670	76
	CCH48FCD+BDK	39,000	28,500	9.15	10.00	405508	76
	CH*F042*2*+BDK	38,000	27,700	9.00	10.00	504761	76
	CH*F042*2*+MBR1200**-1	38,500	28,100	9.00	10.00	517688	76
	CH*F048*2*+BDK	39,000	28,500	9.15	10.00	504763	76
	CH*F048*2*+MBR1600**-1	39,000	28,500	9.15	10.00	517677	76
VCA48C2*	ARPF048-00B-1*	44,000	32,100	9.00	10.00	468743	76
	ARPT049-00*-1*	44,000	32,100	9.00	10.00	468195	76
	ARUF049-00*-1*	44,000	32,100	9.00	10.00	405532	76
	CA*F048*2*+BDK	44,000	32,100	9.00	10.00	531650	76
	CA*F049*2*+MBR1600**-1	44,000	32,100	9.00	10.00	517667	76
	CA*F060*2*+BDK	44,000	32,100	9.00	10.00	504766	76
	CA*F060*2*+MBR1600**-1	44,500	32,500	9.00	10.00	531654	76
	CA*F060*2*+MBR2000**-1	44,500	32,500	9.00	10.00	517679	76
	CCH48FCD+BDK	44,000	32,100	9.00	10.00	405529	76
	CCH60FCD+BDK	45,000	32,900	9.00	10.00	405528	76
	CH*F048*2*+BDK	44,000	32,100	9.00	10.00	504768	76
	CH*F048*2*+MBR1600**-1	44,000	32,100	9.00	10.00	517690	76
VCA60C2*	ARPF060-00B-1*	55,500	39,300	9.00	10.00	468757	76
	ARPT061-00*-1*	55,500	39,300	9.00	10.00	468193	76
	ARUF060-00*-1*	55,500	39,300	9.00	10.00	405561	76
	CA*F060*2*+BDK	55,000	39,000	9.00	10.00	504770	76
	CA*F060*2*+MBR2000**-1	55,000	39,000	9.25	10.00	517689	76
	CCH60FCD+BDK	56,000	39,800	9.00	10.00	405541	76
	CH*F048*2*+BDK	55,500	39,300	9.00	10.00	504772	76
	CH*F048*2*+MBR2000**-1	55,000	39,000	9.25	10.00	517671	76

Accessories

Model	Description	VCA18C2*	VCA24C2*	VCA30C2*	VCA36C2*	VCA42C2*	VCA48C2*	VCA60C2*
CSB02A	Compressor Sound Blanket					x	x	x
CSB05A	Compressor Sound Blanket	x	x	x	x			
HSK04A	Hard Start Kit					x		
HSK06A	Hard Start Kit		x					
HSK10A	Hard Start Kit	x						
HSK11A	Hard Start Kit						x	x
HSK14A	Hard Start Kit			x	x			
LAC02A*	Ambient Temperature Kit	x	x	x	x	x	x	x
ASC01A	Anti Short Cycle Kit	x	x	x	x	x	xx	xx
PCK01A	Pressure Control Kit	x	x	x	x	x	x	x
FSK01A	Freeze Protection Kit	x	x	x	x	x	x	x
LSK01A	Liquid Line Solenoid Kit	x	x	x	x	x	x	x
EAC5	Electronic Air Cleaner	x	x	x	x	x	x	x
MAC1	Media Air Cleaner	x	x	x	x	x	x	x

X Available for this model
XX Factory Installed
N/R Not Required
* Low Ambient Kit used only with TXV coils

Date: 4/05
Supercedes 8/04
Form: PDB-VCA