

DAKOTA SERIES

FEATURES

up to 25 SEER
World Class Performance
All Sizes (9,000-24,000 BTU/h)

- WiFi Control
- Louver Position Memory
- Refrigerant Leakage Detect
- Compressor Heating Belt
- Chasis Heating Belt
- Sleep Mode
- 46°F Heating/Freezing protection
- High Density and Silver Ion Filters
- Extra Low Temperature Heating
- Auto Restart Function



Model		CH-09DKT230VI CH-09DKT230VO	CH-12DKT230VI CH-12DKT230VO	CH-18DKT230VI CH-18DKT230VO	CH-24DKT230VI CH-24DKT230VO
System Type		Heat Pump			
Power Supply		208-230V / 60Hz	208-230V / 60Hz	208-230V / 60Hz	208-230V / 60Hz
Rated Current Cooling	A	2.7	4.2	5.95	8.4
Rated Current Heating	A	3.6	4.2	7.4	10.9
System Performance					
Cooling Capacity	Btu/h	9,000	12,000	17,000	24,000
Heating Capacity	Btu/h	10,900	11,800	18,000	24,000
SEER/EER		25 / 14.5	22.5 / 13	20 / 12.5	20.5 / 13
HSPF/COP		11.2 / 3.83	12.0 / 3.55	10.3 / 3.13	11.5 / 2.81
Indoor Unit					
Air Flow	CFM	418 / 324 / 247	418 / 324 / 247	599 / 411 / 353	794 / 647 / 500
Sound Pressure Level - T/H/M/L	db (A)	42 / 33 / 24.5	43 / 36 / 24	45.5 / 36 / 26.5	47.5 / 44 / 36.5
Unit Dimension (WxHxD)	inches	32.87 x 7.80 x 11.02	32.87 x 7.80 x 11.02	38.98 x 8.58 x 12.40	46.69 x 10.16 x 13.39
Package Dimension (WxHxD)	inches	35.83 x 10.63 x 13.98	35.83 x 10.63 x 13.98	41.93 x 11.81 x 15.75	49.80 x 13.39 x 16.53
Net / Gross Weight	lb	18.52 / 25.35	18.52 / 25.35	26.89 / 34.83	40.12 / 50.26
Outdoor Unit					
Compressor Type		DC Inverter-driven rotary			
Sound Pressure Level	db (A)	55.5	56	57.5	60
Unit Dimension (WxHxD)	inches	31.50 x 13.11 x 21.81	31.50 x 13.11 x 21.81	33.27 x 14.29 x 27.64	37.24 x 16.14 x 31.89
Package Dimension (WxHxD)	inches	36.22 x 15.35 x 24.21	36.22 x 15.35 x 24.21	37.99 x 15.55 x 29.72	42.91 x 19.69 x 34.45
Net / Gross Weight	lb	88.2 / 93.7	88.2 / 93.7	107.4 / 115.1	135.58 / 148.81
Refrigerant / Charge	oz.	R410A / 52.9	R410A / 52.9	R410A / 68.8	R410A / 91.7
Cooling Operation Ambient Temperature Range	°F	-22 ~ +122	-22 ~ +122	-22 ~ +122	-22 ~ +122
Heating Operation Ambient Temperature Range	°F	-22 ~ +86	-22 ~ +86	-22 ~ +86	-22 ~ +86
Piping & Electrical					
Line Set Size (Liquid - Suction)	inches	1/4" - 3/8"	1/4" - 1/2"	1/4" - 1/2"	3/8" - 5/8"
Pre-Charge	Feet	25	25	25	25
Max. Line Run	Feet	82	82	98	164
Max. Elevation	Feet	33	33	66	82
MCA	Amps	9	9	18	20
MOCP	Amps	15	15	25	30
Wire Size / # Wires		16AWG*4 Stranded, unshielded			



up to 25 SEER



DAKOTA SERIES

Innovative Ductless Mini Split Solutions
Split Air Conditioner with Heat Pump



Designed for Single Zone applications like:

Bedrooms | Living Rooms | Dining Rooms | Home Offices | Sunrooms | Basements | Computer / Server Rooms

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Test conditions are based on AHRI 210/240. Specifications are subject to change without notice. Manufacturer reserves the right to discontinue or change at any time, specifications or designs without notice or without incurring obligations. ©2018. All rights reserved.



WiFi CONTROL

With the WiFi Control you can easily turn on and turn off the AC outside your house via smart device.

WiFi kit should be purchased additionally.



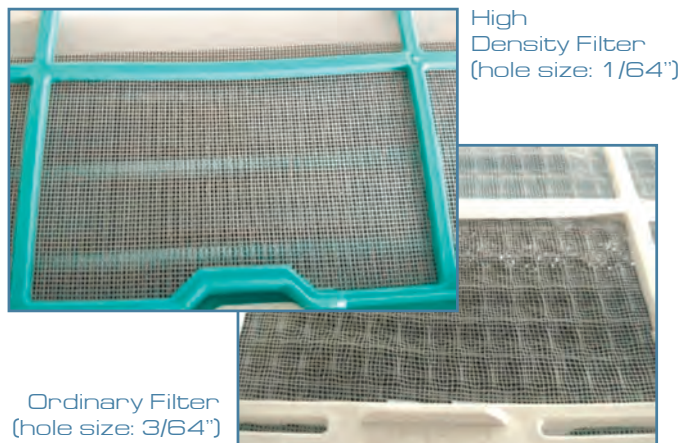
EXTRA LOW TEMPERATURE HEATING

Heat output capacity allows the unit to work efficiently as a primary heat source even when the temperature outside reaches up to -22°F, eliminating the backup heat source.



HIGH DENSITY FILTER

More smooth, and 50% higher in dust clean rate.



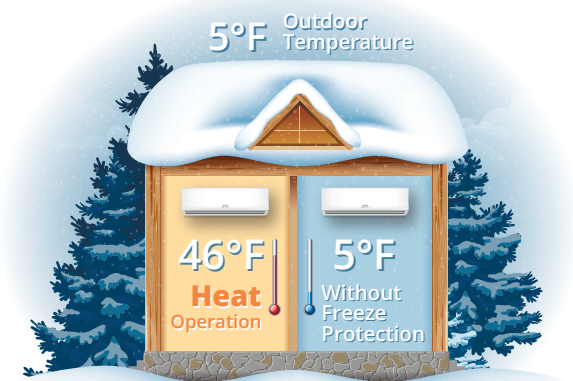
LOW AMBIENT COOLING 0°F

The AC can run cooling operation even when the outdoor temperature is down to 0°F with 100% cooling output.



46°F HEATING/FREEZING PROTECTION

With the freezing protection you can keep your room temperature steady at 46°F and prevent your house from freezing when it is unoccupied in winter time.



COMPATIBILITY OF DAKOTA OUTDOOR UNIT WITH DIFFERENT INDOOR UNITS OF SOPHIA SERIES

Series	Picture	9K	12K	18K	24K
Wall Mount		●	●	●	●
Slim Cassette		●	●	●	●
Duct		●	●	●	●
Ceiling Console			●		
Ceiling & Floor				●	●

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COOLING PERFORMANCE DATA

Model	Cooling		Outdoor conditions (DB)				
	DB	WB	-4F (-20C)	5F (-15C)	17F (-8C)	95F (35C)	
CH-09DKT230VI CH-09DKT230VO	69.8F (21C)	59F (15C)	TC	10.77	11.71	11.05	11.57
	75.2F (24C)	62.6F (17C)	Input	0.64	0.58	0.66	1.21
	80.6F (27C)	66.2F (19C)	TC	12.63	12.37	11.93	12.03
	89.6F (32C)	73.4F (23C)	Input	0.57	0.62	0.7	1.42
			TC	12.92	12.74	12.8	13.26
CH-12DKT230VI CH-12DKT230VO	69.8F (21C)	59F (15C)	TC	10.79	11.77	11.13	11.57
	75.2F (24C)	62.6F (17C)	Input	0.64	0.58	0.66	1.21
	80.6F (27C)	66.2F (19C)	TC	12.63	12.37	11.93	12.03
	89.6F (32C)	73.4F (23C)	Input	0.57	0.62	0.7	1.42
			TC	12.92	12.74	12.13	13.21
CH-18DKT230VI CH-18DKT230VO	69.8F (21C)	59F (15C)	TC	16.76	16.39	17.02	17.46
	75.2F (24C)	62.6F (17C)	Input	0.98	0.97	0.95	1.90
	80.6F (27C)	66.2F (19C)	TC	17.58	17.33	17.70	18.71
	89.6F (32C)	73.4F (23C)	Input	0.99	0.98	0.96	1.89
			TC	18.64	18.40	18.56	19.96
CH-24DKT230VI CH-24DKT230VO	69.8F (21C)	59F (15C)	TC	24.071	23.932	23.996	25.86
	75.2F (24C)	62.6F (17C)	Input	1.89	1.954	1.995	2.56
	80.6F (27C)	66.2F (19C)	TC	24.559	24.416	24.394	28.07
	89.6F (32C)	73.4F (23C)	Input	1.797	1.825	1.794	2.59
			TC	25.335	25.452	25.657	24.00

HEATING PERFORMANCE DATA

Model	Heating		Outdoor conditions (DB)						
	Indoor Conditions	DB	-22F (-30C)	-13F (-25C)	-4F (-20C)	5F (-15C)	17F (-8C)	44.6F (7C)	53.6F (12C)
CH-09DKT230VI CH-09DKT230VO	59F (15C)	TC	6.01	9.22	10.02	12.37	15.03	15.82	17.32
		Input	1.74	1.75	1.73	1.71	1.69	1.32	1.18
	64.4F (18C)	TC	5.41	9.12	9.82	12.19	14.31	15.40	16.45
		Input	1.78	1.78	1.74	1.74	1.72	1.35	1.21
	69F (20.5C)	TC	5.31	9.02	9.65	12.01	13.58	14.98	15.57
		Input	1.86	1.82	1.79	1.78	1.76	1.39	1.25
71.6F (22C)	TC	5.22	8.88	9.42	11.51	13.08	14.48	15.07	
	Input	1.92	1.91	1.91	1.87	1.85	1.48	1.34	
CH-12DKT230VI CH-12DKT230VO	59F (15C)	TC	6.01	9.22	10.20	12.37	15.03	15.82	17.32
		Input	1.74	1.75	1.72	1.71	1.69	1.32	1.18
	64.4F (18C)	TC	5.41	9.12	10.02	12.19	14.31	15.40	16.45
		Input	1.78	1.78	1.75	1.74	1.72	1.35	1.21
	69F (20.5C)	TC	5.31	9.02	9.82	12.01	13.58	14.98	15.57
		Input	1.86	1.82	1.81	1.78	1.76	1.39	1.25
71.6F (22C)	TC	5.22	8.88	9.62	12.00	13.08	14.48	15.07	
	Input	1.92	1.91	1.90	1.87	1.85	1.48	1.34	
CH-18DKT230VI CH-18DKT230VO	59F (15C)	TC	11.99	16.82	17.26	18.82	23.32	24.32	26.88
		Input	2.64	3.11	3.12	3.18	2.87	2.21	2.27
	64.4F (18C)	TC	12.12	16.67	17.11	18.67	23.17	24.17	26.73
		Input	2.73	3.18	3.22	3.25	2.94	2.28	2.34
	69F (20.5C)	TC	12.42	16.52	17.01	18.52	23.02	24.02	26.58
		Input	2.71	3.25	3.26	3.32	3.01	2.35	2.41
71.6F (22C)	TC	11.19	16.25	16.87	18.25	22.75	23.75	26.31	
	Input	2.49	3.28	3.28	3.35	3.04	2.38	2.44	
CH-24DKT230VI CH-24DKT230VO	59F (15C)	TC	15.20	16.66	22.54	25.24	26.02	29.79	31.92
		Input	3.19	3.95	3.94	4.02	3.89	3.28	3.22
	64.4F (18C)	TC	15.13	16.59	22.32	24.10	25.78	29.75	31.85
		Input	3.35	3.90	3.91	4.03	3.92	3.24	3.17
	69F (20.5C)	TC	13.46	16.65	20.05	24.16	25.84	29.81	31.91
		Input	3.07	3.64	3.68	3.77	3.66	2.98	2.91
71.6F (22C)	TC	13.29	16.52	21.02	24.03	25.71	29.68	31.78	
	Input	3.40	3.85	3.91	3.98	3.87	3.19	3.12	

LEGEND
DB --- Dry Bulb
WB --- Wet Bulb
TC --- Total Net Capacity (1000 Btu/hour)
Input --- Total Power (kW)
COP --- W/W