



SOPHIA

Innovative Ductless Mini Split Solutions
Split Air Conditioner with Heat Pump



*selected models



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

www.cooperandhunter.us



SOPHIA

up to **25 SEER**

Features

- High Density Filter
- Mute Operation
- Double Level Air Flaps
- Anti Cold Air
- Turbo Operation
- Two Direction Airflow
- Sleep Mode
- 12 Grades Indoor Fan Speeds
- Louver Position Memory Function
- Auto Restart
- Timer
- Two-way Draining Connection
- Self Diagnosis Function
- Refrigerant Leakage Detect
- Emergency Using Function

Horizontal swing is only available in 9K-24K models and not available for 30-36K



SUPERIOR

Model	CH-SR09SPH-115VI/ CH-SR09SPH-115VO	CH-09SPH-115VI/ CH-09SPH-115VO	CH-09SPH-230VI/ CH-09SPH-230VO	CH-12SPH-115VI/ CH-12SPH-115VO	CH-12SPH-230VI/ CH-12SPH-230VO	CH-18SPH-230VI/ CH-18SPH-230VO	CH-24SPH-230VI/ CH-24SPH-230VO	CH-30SPH-230VI/ CH-30SPH-230VO	CH-36SPH-230VI/ CH-36SPH-230VO		
System type	Heat Pump		Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump		
Power supply	Ph-V-Hz	115V / 60Hz, 1Ph	115V / 60Hz, 1Ph	208-230V / 60Hz, 1Ph	115V / 60Hz, 1Ph	208-230V / 60Hz, 1Ph	208-230V / 60Hz, 1Ph	208-230V / 60Hz, 1Ph	208-230V / 60Hz, 1Ph		
Cooling	Capacity	Btu/h	9000	9000	9000	12000	12000	18000	24000	30000	36000
	Input	W	600	640	640	960	923	1384	1920	2857	4235
	Rated current	A	5.2	2.9	2.9	8.4	4.05	6.1	8.4	12.5	18.5
	EER	Btu/w	15	14	14	12.5	13	13	12.5	10.5	8.5
	SEER	Btu/w	25	22.8	22.8	21.5	21.5	20.8	20.5	18	16
Heating	Capacity	Btu/h	10000	9800	9800	12000	12000	18000	25000	30000	36000
	Input	W	715	930	930	1120	1085	1570	2315	3110	3835
	Rated current	A	6.22	4.2	4.2	9.8	4.72	6.82	10.1	13.5	16.7
	COP	W/W	4.1	3.09	3.09	3.09	3.24	3.36	3.17	2.83	2.75
	HSPF4	Btu/w	10.5	10.5	10.5	11.2	9.8	10	10	9.6	10
HSPF5	Btu/w	8.6	8.6	8.6	9	7.7	8	8.3	8.1	8.4	
Application area (cooling standard)	sq.ft	172-252	129-189	129-189	172-252	172-252	251-368	330-484	861-915	990-1076	
MINIMUM CIRCUIT AMPACITY (MCA)	A	15	10	10	15	12	15	18	20	25	
MOCP	A	23	23	13	24.5	16	23.5	28	34.9	39.4	
MAX.FUSE	A	20	15	15	20	15	20	25	30	35	
Compressor	Type	ROTARY									
	Rated current (RLA)	A	9.8	9.8	5.5	10.5	6.8	10	12	15	17
Indoor unit	Air flow (Hi/Mi/Lo)	CFM	306/212/147	265/205/141	265/205/141	306/212/147	306/212/147	559/365/306	618/471/324	795/618/471	853/647/471
	Sound Pressure level (Hi/Mi/Lo)	dB(A)	36/32/23	36.5/30/25	36.5/30/25	36/32/23	36.5/30/25	43/38/32	47.5/42/33	52/44/35	52/44/36
	Dimension(W*D*H)	in	31.57x7.44x11.69	31.57x7.44x11.69	31.57x7.44x11.69	31.57x7.44x11.69	31.57x7.44x11.69	42.52x8.90x13.19	42.52x8.90x13.19	49.57x11.10x14.25	49.57x11.10x14.25
	Packing (W*D*H)	in	34.45x11.22x14.76	34.45x11.22x14.76	34.45x11.22x14.76	34.45x11.22x14.76	34.45x11.22x14.76	45.47x16.34x12.40	45.47x16.34x12.40	52.76x17.72x14.96	52.76x17.72x14.96
	Net/Gross weight	lb	18.7/24.3	18.7/24.3	18.7/24.3	18.7/24.3	18.7/24.3	29.1/37.0	29.1/37.0	43.2/55.6	43.2/55.6
Outdoor unit	Air flow	CFM	1120	1060	1060	1120	1120	1470	2355	2530	2943
	Sound Pressure level	dB(A)	52.5	55.5	55.5	52.5	57.5	61	61	62	63
	Dimension(W*D*H)	in	31.50x13.11x21.81	30.31x11.81x21.85	30.31x11.81x21.85	31.50x13.11x21.81	31.50x13.11x21.81	33.27x14.29x27.64	37.24/16.14/31.89	37.24/16.14/31.89	37.24/16.14/31.89
	Packing (W*D*H)	in	36.22x15.35x24.21	35.43x13.58x23.03	35.43x13.58x23.03	36.22x15.35x24.21	36.22x15.35x24.21	38.00x15.55x29.72	42.91x19.69x34.45	42.91x19.69x34.45	42.91x19.69x34.45
Net/Gross weight	lb	82.7/89.2	82.7/89.2	82.7/89.2	82.7/89.2	82.7/89.2	101.0/108.2	136.69/147.27	137.79/147.71	143.3/153.22	
Refrigerant type	oz	R410A/40.6	R410A/38.8	R410A/38.8	R410A/40.6	R410A/40.6	R410A/68.8	R410A/82.9	R410A	R410A	
Refrigerant precharge	ft	25	25	25	25	25	25	25	25	25	
Additional charge for each ft	oz	0.161	0.161	0.161	0.161	0.161	0.161	0.322	0.322	0.322	
Refrigerant piping	Liquid side/ Gas side	in	1/4" - 1/2"	1/4" - 3/8"	1/4" - 3/8"	1/4" - 1/2"	1/4" - 1/2"	1/4" - 1/2"	3/8" - 5/8"	3/8" - 5/8"	3/8" - 5/8"
	Max. refrigerant pipe length	ft	82	82	82	82	82	98	164	164	213
	Max. difference in level	ft	33	33	33	33	33	66	82	82	98
Connection wiring		16 AWG/4	16 AWG/4	16 AWG/4	16 AWG/4	16 AWG/4	16 AWG/4	16 AWG/4	16 AWG/4	16 AWG/4	
Power supply wiring		14 AWG/3	14 AWG/3	14 AWG/3	14 AWG/3	14 AWG/3	14 AWG/3	12 AWG/3	12 AWG/3	10 AWG/3	
Control type		Remote Control	Remote Control	Remote Control	Remote Control	Remote Control	Remote Control	Remote Control	Remote Control	Remote Control	
Operation temperature	Indoor (cooling/ heating)	°F	62-90/32-86	62-90/32-86	62-90/32-86	62-90/32-86	62-90/32-86	62-90/32-86	62-90/32-86	62-90/32-86	62-90/32-86
	Outdoor (cooling/heating)	°F	-13--+122/13--+86	-13--+122/13--+86	-13--+122/13--+86	-13--+122/13--+86	-13--+122/13--+86	-13--+122/13--+86	-13--+122/13--+86	+5--+122/5--+86	+5--+122/5--+86

* Energy Star certified

WiFi kit is purchased separately



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