



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



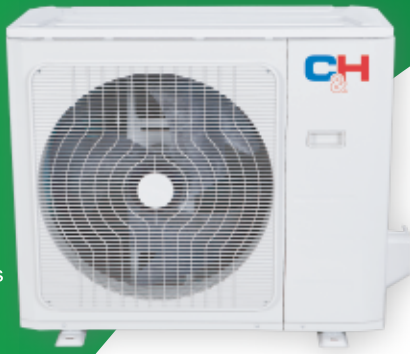
SOPHIA

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	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	208-230V / 60Hz, 1Ph
Cooling	Capacity	Btu/h	9000	9000	9000	12000	12000	18000	24000	30000
	Input	W	600	640	640	960	923	1384	1920	2857
	Rated current	A	5.2	2.9	2.9	8.4	4.05	6.1	8.4	12.5
	EER	Btu/w	15	14	14	12.5	13	13	12.5	10.5
	SEER	Btu/w	25	22.8	22.8	21.5	21.5	20.8	20.5	18
Heating	Capacity	Btu/h	10000	9800	9800	12000	12000	18000	25000	30000
	Input	W	715	930	930	1120	1085	1570	2315	3110
	Rated current	A	6.22	4.2	4.2	9.8	4.72	6.82	10.1	13.5
	COP	W/W	4.1	3.09	3.09	3.09	3.24	3.36	3.17	2.83
	HSPF4	Btu/w	10.5	10.5	10.5	11.2	9.8	10	10	9.6
HSPF5	Btu/w	8.6	8.6	8.6	9	7.7	8	8.3	8.1	
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	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
	Rated current (RLA)	A	9.8	9.8	5.5	10.5	6.8	10	12	15
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
	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
	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
	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
	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
Outdoor unit	Air flow	CFM	1120	1060	1060	1120	1120	1470	2355	2943
	Sound Pressure level	dB(A)	52.5	55.5	55.5	52.5	57.5	61	61	62
	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
	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
	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
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	
Refrigerant precharge	ft	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	
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"	
	Max. refrigerant pipe length	ft	82	82	82	82	82	98	164	
	Max. difference in level	ft	33	33	33	33	33	66	82	
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	
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	
Control type		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	
	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	

* Energy Star certified

WiFi kit is purchased separately



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