

Compatibility tables:

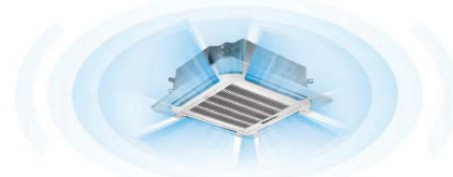
			9K	12K	18K	24K	36K	48K
Outdoor			CH-09MSPHCT-230VI	CH-12MSPHCT-230VI	CH-18MSPHCT-230VI	CH-24MSPHCT-230VI	CH-36LCT-230VI	CH-48LCT-230VI
Sophia Single Zone	9K	CH-09SPH-230VO	☑					
	12K	CH-12SPH-230VO		☑				
	18K	CH-18SPH-230VO			☑			
	24K	CH-24SPH-230VO				☑		
Sophia Hyper Single Zone	9K	CH-HYP09SPH-230VO	☑					
	12K	CH-HYP12SPH-230VO		☑				
	18K	CH-HYP18SPH-230VO			☑			
	24K	CH-HYP24SPH-230VO				☑		
Sophia Multi Zone	18K (2 zones)	CH18MSPH230VO	☑	☑				
	28K (2-3 zones)	CH28MSPH230VO	☑	☑	☑			
	36K (2-4 zones)	CH36MSPH230VO	☑	☑	☑	☑		
	48K (2-5 zones)	CH48MSPH230VO	☑	☑	☑	☑		
Light Commercial	24K	CH-24LCUO				☑		
	36K	CH-36LCUO					☑	
	48K	CH-48LCUO						☑
Light Commercial Hyper	36K	CH-HYP36LCUO					☑	
	48K	CH-HYP48LCUO						☑

General Features

- Two-way Draining Connection
- Activated Carbon Filter
- GoldFin Anti-Corrosive Coating
- Anti Cold Air
- Omni-Directional Airflow
- Sleep Mode
- Turbo Operation
- 12 Indoor Fan Speeds
- Refrigerant Leakage Detection
- Self Diagnosis Function
- Mute Operation
- Easy Installation
- Fresh Air Intake

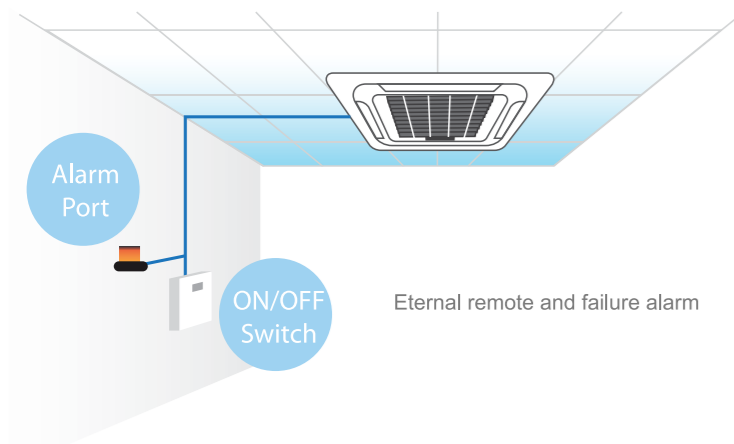
360° Air Flow Panel

With a 360° Air Flow Panel, air is evenly distributed to every corner of the room.



Reserved ON/OFF and Alarm Ports

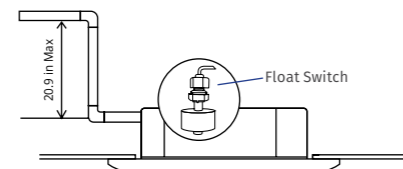
ON/OFF Switch: With the reserved ports, a remote switch can be easily connected.
Alarm Port: The built-in PCB can output alarm signal, which allows set up of external alarm light or vibration gauge.



Eternal remote and failure alarm

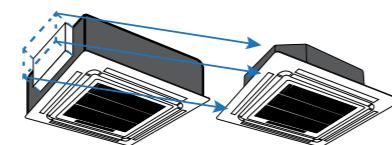
Built-in Drain Pump

The built-in pump removes condensate water from the unit automatically and efficiently, with a 30-inch lift capability and quiet performance. This feature includes a float switch that disables indoor unit during overflow detection.

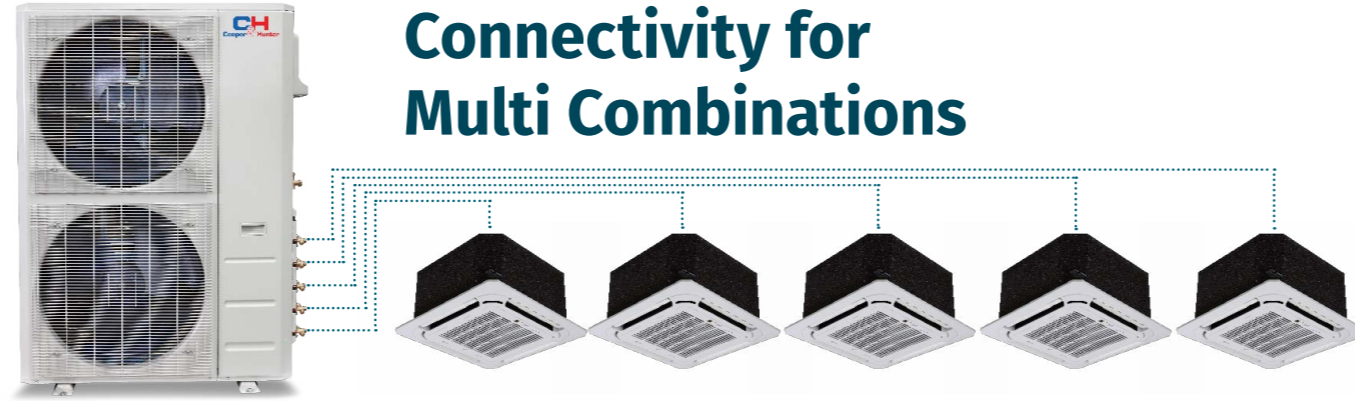


E-Box Inside

Easy maintenance with the electric box inside the unit. The integrated design provides a more compact size for easier installation.



Connectivity for Multi Combinations



	Multi DC Outdoor Unit	Two Units	Three Units	Four Units	Five Units
1 drive 2	CH-18MSPH230VO	9+9			
	CH-HYP19MSPH230VO	9+12			
1 drive 3	CH-28MSPH230VO	9+9	9+9+9		
	CH-HYP28MSPH230VO	9+12	9+9+12		
1 drive 4	CH-36MSPH230VO	9+18	9+9+9		
	CH-HYP36MSPH230VO	9+24	9+9+12	9+9+9+9	
1 drive 5	CH-48MSPH230VO	9+30	9+9+18	9+9+9+18	
	CH-HYP48MSPH230VO	9+36	9+9+30	9+9+9+24	9+9+9+9+9

Note:

- If total load of indoor units exceeds nominal capacity of outdoor unit, the practical output capacity of every indoor unit will be attenuated correspondingly. This is most evident in heating mode.
- Outdoor Unit Capacity 0.66 ≤ Indoor Unit Capacity ≤ Outdoor Unit Capacity 1.33
- All outdoor unit specs are based on maximum number of zones with 9K Btu/h units.

Ceiling Cassette Air Conditioners



Single Zone | Multi Zone | Light Commercial

Your actual Multi-Room Inverter Heat Pump system and related devices may differ from images shown in this specification sheet. 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 incurring obligations. © 02.2021 All rights reserved.

Scan to learn more about C&H Ductless Inverter system or visit us at cooperandhunter.us



www.cooperandhunter.us



Single Zone



INDOOR UNIT		CH-09MSPHCT-230VI	CH-12MSPHCT-230VI	CH-18MSPHCT-230VI	CH-24MSPHCT-230VI
Power Supply	V-Hz-Ph	208-230V / 60Hz/1Ph	208-230V / 60Hz/1Ph	208-230V / 60Hz/1Ph	208-230V / 60Hz/1Ph
Cooling Capacity	Btu/h	9,000	12,000	18,000	24,000
Minimum Circuit Ampacity (MCA)	A	1.2	1.3	1.9	2.5
MAX. FUSE	A	15	15	15	15
Air Flow (Hi/Mi/Lo) (No duct)	CFM	374/301/257	379/309/261	560/483/415	878/761/625
Noise Level (Hi/Mi/Lo)	dB(A)	41/37/33	43/39/36	44/39/36	51/47/43
Unit Dimension (WxDxH)	in	22.4x22.4x10.2	22.4x22.4x10.2	22.4x22.4x10.2	33.1x33.1x8.1
Packing Dimension (WxDxH)	in	25.8x25.8x11.4	25.8x25.8x11.4	25.8x25.8x11.4	35.4x35.4x8.5
Net/Gross Weight	lb	32/38.1	35.3/41	35.5/41.2	46.3/54.2
Design pressure	PSIG	550/340	550/340	550/340	550/340
Room Temperature	F°	62-90/32-86	62-90/32-86	62-90/32-86	62-90/32-86
Liquid side/ Gas side	in	1/4" - 3/8"	1/4" - 1/2"	1/4" - 1/2"	3/8" - 5/8"

SOPHIA SERIES OUTDOOR UNIT		CH-09SPH-230VO	CH-12SPH-230VO	CH-18SPH-230VO	CH-24SPH-230VO	
Power supply	V-Hz-Ph	208-230V/60Hz/1Ph	208-230V/60Hz/1Ph	208-230V/60Hz/1Ph	208-230V/60Hz/1Ph	
Cooling	Capacity	9,000	12,000	18,000	24,000	
	Rated current	A	3.17	3.9	6.59	8.79
	EER		13	14	12.5	12.5
	SEER		20	21.5	20	20
Heating	Capacity	Btu/h	10,000	12,000	18,000	24,000
	Rated current	A	4	4.2	7.49	10.18
	COP		3.22	3.7	3.22	3.22
	HSPF4		10.5	10.5	10.3	10.5
HSPF5		8.4	8.4	8.8	8.4	
Minimum Circuit Ampacity (MCA)	A	10	12	15	18	
MAX. FUSE	A	15	15	20	25	
Air Flow (max)	CFM	1,177	1,177	1,470	2,237	
Noise Level	dB(A)	55	55	60	61	
Unit Dimension (WxDxH)	in	30.3x11.8x21.9	31.3x11.8x21.8	33.3x14.3x27.6	37.2x16.1x31.9	
Packing Dimension (WxDxH)	in	35.4x13.6x23	36.2x15.4x24.2	38x15.6x29.7	42.9x19.7x34.5	
Net/Gross weight	lb	61.7/66.8	76.7/82.7	106.9/112.4	136.7/148.6	
Refrigerant type/Quantity	oz	R410A/38.8	R410A/40.6	R410A/68.8	R410A/82.9	
Refrigerant precharge (Total pipe length)	ft	25	25	25	25	
Additional charge for each ft	oz	0.16	0.16	0.16	0.32	
Design pressure	PSIG	550/340	550/340	550/340	550/340	
Refrigerant piping	Liquid side/ Gas side	in	1/4" - 3/8"	1/4" - 1/2"	1/4" - 1/2"	3/8" - 5/8"
	Max. refrigerant pipe length	ft	82	98	98	164
	Max. difference in level	ft	33	33	66	82
Ambient temperature	cooling/heating	F°	-13-122/ -13-86	-13-122/ -13-86	-13-122/ -13-86	-13-122/ -13-86

HYPER SERIES OUTDOOR UNIT		CH-HYP09SPH-230VO	CH-HYP12SPH-230VO	CH-HYP18SPH-230VO	CH-HYP24SPH-230VO	
Power supply	V-Hz-Ph	208-230V/60Hz/1Ph	208-230V/60Hz/1Ph	208-230V/60Hz/1Ph	208-230V/60Hz/1Ph	
Cooling	Capacity	Btu/h	9,000	12,000	16,000	24,000
	Rated current	A	3.17	4.39	5.85	9.98
	EER		13	12.5	12.5	11
	SEER		20	19.5	20	20
Heating	Capacity	Btu/h	10,000	12,000	18,000	24,000
	Rated current	A	4.35	4.39	7.48	9.31
	COP		3.08	3.66	3.22	3.46
	HSPF4		10.8	10.6	10.5	11.5
HSPF5		9.4	9.2	9.1	10	
Minimum Circuit Ampacity (MCA)	A	9	9	18	20	
MAX. FUSE	A	15	15	25	30	
Air Flow (max)	CFM	1,120	1,180	1,355	2,354	
Noise Level	dB(A)	59	57	59	61	
Unit Dimension (WxDxH)	in	31.5x13.1x21.8	31.5x13.1x21.8	33.3x14.3x27.6	37.2x16.1x31.9	
Packing Dimension (WxDxH)	in	36.2x15.4x24.2	36.2x15.4x24.2	38x15.6x30.1	42.9x19.7x34.5	
Net/Gross weight	lb	88.2/93.7	88.2/93.7	107.4/115.1	135.6/148.8	
Refrigerant type/Quantity	oz	R410A/52.9	R410A/52.9	R410A/68.8	R410A/91.7	
Refrigerant precharge (Total pipe length)	ft	25	25	25	25	
Additional charge for each ft	oz	0.16	0.16	0.16	0.32	
Design pressure	PSIG	550/340	550/340	550/340	550/340	
Refrigerant piping	Liquid side/ Gas side	in	1/4" - 3/8"	1/4" - 1/2"	1/4" - 1/2"	3/8" - 5/8"
	Max. refrigerant pipe length	ft	82	82	98	164
	Max. difference in level	ft	33	33	66	82
Ambient temperature	cooling/heating	F°	-22-122/ -22-86	-22-122/ -22-86	-22-122/ -22-86	-22-122/ -22-86



Single Zone Light Commercial



INDOOR UNIT		CH-24MSPHCT-230VI	CH-36LCCT-230VI	CH-48LCCT-230VI
Power Supply	V-Hz-Ph	208-230V / 60Hz/1Ph	208-230V / 60Hz/1Ph	208-230V / 60Hz/1Ph
Cooling Capacity	Btu/h	24,000	36,000	48,000
Minimum Circuit Ampacity (MCA)	A	2.5	1.9	2
MAX. FUSE	A	15	15	15
Air Flow (Hi/Mi/Lo) (No duct)	CFM	878/761/625	1,095/958/809	1,177/1,030/853
Noise Level (Hi/Mi/Lo)	dB(A)	51/47/43	55/52/49	55/52/49
Unit Dimension (WxDxH)	in	33.1x33.1x8.1	33.1x33.1x9.7	33.1x33.1x11.3
Packing Dimension (WxDxH)	in	35.4x35.4x8.5	35.4x35.4x10.1	35.4x35.4x11.5
Net/Gross Weight	lb	46.3/54.2	58.2/66.1	63.3/72.5
Design pressure	PSIG	550/340	550/340	550/340
Room Temperature	F°	62-90/32-86	62-90/32-86	62-90/32-86
Liquid side/ Gas side	in	3/8" - 5/8"	3/8" - 5/8"	3/8" - 5/8"

LIGHT COMMERCIAL SERIES OUTDOOR UNIT		CH-24LCUO	CH-36LCUO	CH-HYP36LCUO	CH-HYP48LCUO	CH-48LCUO
Power supply	V-Hz-Ph	208-230V/60Hz/1Ph	208-230V/60Hz/1Ph	208-230V/60Hz/1Ph	208-230V/60Hz/1Ph	208-230V/60Hz/1Ph
Cooling	Capacity	Btu/h	24,000	36,000	36,000	48,000
	Rated current	A	9.98	16.93	16.7	25.24
	EER		11	9	9	8.3
	SEER		20	17.5	17.5	16.5
Heating	Capacity	Btu/h	24,000	38,000	38,000	50,000
	Rated current	A	9.31	16.93	16.93	21.41
	COP		3.46	3.01	3.01	2.93
	HSPF4		11.5	10.5	10.5	10.7
HSPF5		10	9.1	9.1	9.2	
Minimum Circuit Ampacity (MCA)	A	20	30	39	36.3	
MAX. FUSE	A	30	50	50	50	
Air Flow (max)	CFM	2,354	2,530	4,470	4,470	
Noise Level	dB(A)	61	66	65	65	
Unit Dimension (WxDxH)	in	37.2x16.1x31.9	37.2x16.1x31.9	37.5x16.3x52.5	37.5x16.3x52.5	
Packing Dimension (WxDxH)	in	42.9x19.7x34.5	42.9x19.7x34.5	43.1x19.5x58.3	43.1x19.5x58.3	
Net/Gross weight	lb	135.6/148.8	148.6/160.9	222.3/248	217.4/246	
Refrigerant type/Quantity	oz	R410A/91.7	R410A/107.6	R410A/148	R410A/148	
Refrigerant precharge (Total pipe length)	ft	25	25	25	25	
Additional charge for each ft	oz	0.32	0.32	0.32	0.32	
Design pressure	PSIG	550/340	550/340	550/340	550/340	
Refrigerant piping	Liquid side/Gas side	in	3/8" - 5/8"	3/8" - 5/8"	3/8" - 5/8"	3/8" - 5/8"
	Max. refrigerant pipe length	ft	164	213	213	213
	Max. difference in level	ft	82	98	98	98
Ambient temperature	cooling	F°	-22-122	5-122	-22-122	-22-122
	heating	F°	-22-86	5-86	-22-86	-22-86

9K-18K Btu/h



CH-PNL09-18MSPHCT	
Grill Dimension	16.5x16.5x0.8
Panel Dimension (WxDxH) in	25.5 x25.5 x2
Packing Dimension (WxDxH) in	28.2x28.2x4.8

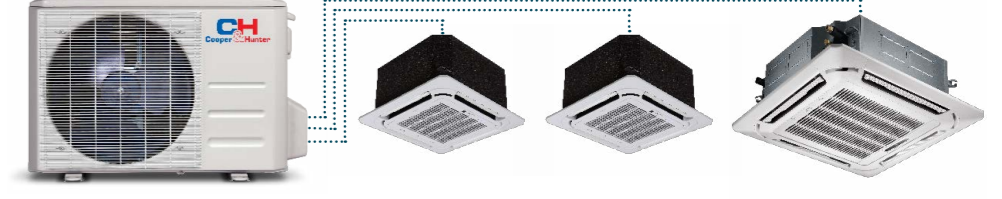
24K-48K Btu/h



CH-PNL24-48MSPHCT	
Grill Dimension	24.5x24.5x1
Panel Dimension (WxDxH) in	37.4x37.4x2.2
Packing Dimension (WxDxH) in	40.8x40.8x3.5



Multi Zone



INDOOR UNIT		CH-09MSPHCT-230VI	CH-12MSPHCT-230VI	CH-18MSPHCT-230VI	CH-24MSPHCT-230VI
Power Supply	V-Hz-Ph	208-230V / 60Hz/1Ph	208-230V / 60Hz/1Ph	208-230V / 60Hz/1Ph	208-230V / 60Hz/1Ph
Cooling Capacity	Btu/h	9,000	12,000	18,000	24,000
Minimum Circuit Ampacity (MCA)	A	1.2	1.3	1.9	2.5
MAX. FUSE	A	15	15	15	15
Air Flow (Hi/Mi/Lo) (No duct)	CFM	374/301/257	379/309/261	560/483/415	878/761/625
Noise Level (Hi/Mi/Lo)	dB(A)	41/37/33	43/39/36	44/39/36	51/47/43
Unit Dimension (WxDxH)	in	22.4x22.4x10.2	22.4x22.4x10.2	22.4x22.4x10.2	33.1x33.1x8.1
Packing Dimension (WxDxH)	in	25.8x25.8x11.4	25.8x25.8x11.4	25.8x25.8x11.4	35.4x35.4x8.5
Net/Gross Weight	lb	32/38.1	35.3/41	35.5/41.2	46.3/54.2
Design pressure	PSIG	550/340	550/340	550/340	550/340
Room Temperature	F°	62-90/32-86	62-90/32-86	62-90/32-86	62-90/32-86
Liquid side/ Gas side	in	1/4" - 3/8"	1/4" - 1/2"	1/4" - 1/2"	3/8" - 5/8"

MULTI ZONE OUTDOOR UNIT		CH-18MSPH230VO	CH-28MSPH230VO	CH-36MSPH230VO	CH-48MSPH230VO
Power supply	V-Hz-Ph	208-230V/60Hz, 1Ph	208-230V/60Hz, 1Ph	208-230V/60Hz, 1Ph	208-230V/60Hz/1Ph
Cooling	Capacity	Btu/h	17,000	27,000	36,000
	EER		12.5	12	10.9
	SEER		21.3	22	22.5
	Capacity	Btu/h	18,000	28,000	36,000
Heating	COP		3.7	3.7	3.1
	HSPF4		10	9.8	10.3
	HSPF5		8.6	8	9
	Minimum Circuit Ampacity (MCA)	A	18	25	30
MAX. FUSE	A	25	35	45	
Air Flow (max)	CFM	1,390	2,130	2,130	
Noise Level	dB(A)	62.4	63.4	62.3	
Unit Dimension (WxDxH)	in	33.3x14.3x27.6	37.2x16.1x31.9	37.2x16.1x31.9	
Packing Dimension (WxDxH)	in	38x15.6x30.1	42.9x19.7x34.5	42.9x19.7x34.5	
Net/Gross weight	lb	105.8/114.6	149.9/160.9	156.5/167.6	
Refrigerant type/Quantity	oz	R410A/70.5	R410A/98.8	R410A/105.8	
Refrigerant precharge (Total pipe length)	ft	49	74	98	
Additional charge for each ft	oz	0.16	0.16	0.16	
Design pressure	PSIG	550/340	550/340	550/340	
Refrigerant piping	Liquid side/Gas side	in	2x (1/4" - 3/8")	3x (1/4" / 3/8")	4x1/4" / 3x3/8" - 1x1/2"
	Max. length for all rooms	ft	131	197	262
	Max. length for one indoor unit	ft	82	98	115
Ambient temperature	cooling	F°	-13-122	-13-122	-13-122
	heating	F°	-13-86	-13-86	-13-86

HYPER MULTI ZONE OUTDOOR UNIT		CH-HYP19MSPH230VO	CH-HYP28MSPH230VO	CH-HYP36MSPH230VO	CH-HYP48MSPH230VO
Power supply	V-Hz-Ph	208-230V/60Hz, 1Ph	208-230V/60Hz, 1Ph	208-230V/60Hz, 1Ph	208-230V/60Hz, 1Ph
Cooling	Capacity	Btu/h	19,000	28,000	36,000
	EER		12.5	13	13.5
	SEER		21.5	22	21.5
	Capacity	Btu/h	20,0		