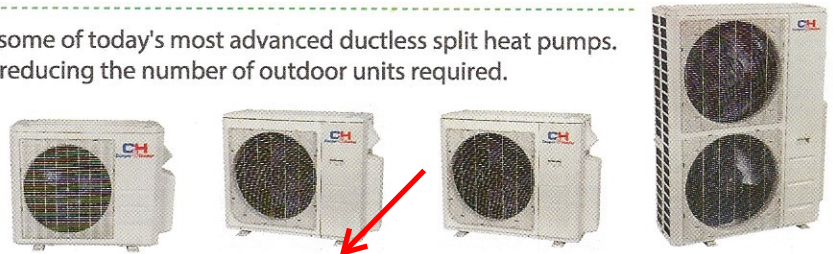


C&H SOPHIA Multi-Zone systems, with inverter technology, are some of today's most advanced ductless split heat pumps. Up to 5 indoor units can be connected to a single outdoor unit, reducing the number of outdoor units required. All indoor units can be individually controlled and do not need to be installed at the same time.



OUTDOOR UNITS Multi-Zone

Model			CH18MSPH230VO *	CH28MSPH230VO *	CH36MSPH230VO	CH48MSPH230VO	
Power supply		Ph-V-Hz	208-230V~60Hz, 1Ph	208-230V~60Hz, 1Ph	208-230V~60Hz, 1Ph	208-230V~60Hz, 1Ph	
Cooling	Capacity	Btu/h	17000	27000	36000	48000	
	Capacity Range	Btu/h	4197~19900	6630~30600	8190~38500	9560~53500	
	Total Input	W	409~2003	670~3210	920~4325	855~4795	
	EER	Btu	12.5	12.0	10.9	11.6	
	SEER		21.3	22.0	22.5	21.5	
Heating at 47F	Capacity	Btu/h	18000	28000	36000	48000	
	Capacity Range	Btu/h	2225~23475	3690~32860	4940~38000	6850~53980	
	Total Input	W	347~2142	1400~3530	1070~2965	995~5160	
	COP		3.7	3.7	3.1	3.4	
	HSPF4		10	9.8	10.3	10.4	
	HSPF5		8.6	8.0	9.0	8.6	
heating at 17F	Rated capacity	Btu/h	11800	16800	25400	30800	
heating at 5F-15°C)	maximum capacity	Btu/h	14200	20900	28800	35800	
MINIMUM CIRCUIT AMPACITY		A	18.0	25.0	30.0	35.0	
MAX.FUSE		A	25.0	35.0	45.0	50.0	
Compressor	Model		ATM150D23UFZ	ATF235D22UMT	ATF310D43UMT	ATQ360D1UMU	
	Type		ROTARY	ROTARY	ROTARY	Twin-ROTARY	
	Brand		GMCC	GMCC	GMCC	GMCC	
	Capacity	Btu/h	15388	24345	32380	38214	
	Input	W	1170	1970	2600	3040	
	Rated current(RLA)	A	10	20,00	22,00	21,00	
Outdoor fan Motor	Refrigerant oil/oil charge	ml	VG74/500	POE(VG74)/670	PQE(VG74)/1000	Ester Oil VG74/1400	
	Brand		Shibaura	Welling	Welling	Welling	
	Input	W	50(Output)	120(Output)	120(Output)	85(Output)	
	RLA	A	0.74	0,9	1.3	0,39	
	Speed	r/min	150 - 850	150 - 10000	150 - 10000	150 - 870	
	Outdoor air flow	m3/h	2362	3619	3619	7646	
Outdoor air flow	CFM	1390	2130	2130	4500		
Outdoor noise level	dB(A)	62,4	63,4	62,3	64		
Outdoor unit	Dimension(W*D*H)	mm	845x363x702	946x410x810	946x410x810	952x415x1333	
	Dimension(W*D*H)	inch	33.27x14.29x27.64	37.24x16.14x31.89	37.24x16.14x31.89	37.48x16.34x52.48	
	Packing (W*D*H)	mm	965x395x755	1090x500x875	1090x500x875	1095x495x1480	
	Packing (W*D*H)	inch	37.99x15.55x29.72	42.91x19.69x34.45	42.91x19.69x34.45	43.11x19.49x58.27	
	Net/Gross weight	Kg	48/52	68/73	71/76	101.5/115.7	
	Net/Gross weight	lbs.	105.82/114.64	149.91/160.94	156.53/167.55	223.77/255.07	
Refrigerant type	oz	R410A/70.5	R410A/98.8	R410A/105.8	R410A/162.3		
Refrigerant precharge(Total pipe length)	ft	25	25	25	25		
Additional charge for each ft	oz	0.161	0.161	0.161	0,32		
Design pressure	PSIG	550/340	550/340	550/340	550/340		
Refrigerant piping	Liquid side - Gas side	inch	2x1/4" - 2x3/8"	3x1/4" - 3x3/8"	4x1/4" - 3x3/8" + 1x1/2"	5x1/4" - 3x3/8" + 2x1/2"	
	Max. length for all rooms	m	30	45	60	75	
	Max. length for all rooms	ft	98	148	197	246	
	Max. length for one indoor unit	m	20	25	30	30	
	Max. length for one indoor unit	ft	66	82	98	98	
	Max. height difference between indoor and outdoor unit	OU higher than IU	m	10	10	10	10
		OU higher than IU	ft	33	33	33	33
		OU lower than IU	m	15	15	15	15
		OU lower than IU	ft	49	49	49	49
	Max. height difference between indoor units	m	10	10	10	10	
Max. height difference between indoor units	ft	33	33	33	33		
Connection wiring			NO	NO	NO	NO	
Ambient temperature	cooling	°C	-25~50	-25~50	-25~50	-25~50	
	cooling	°F	-13~122	-13~122	-13~122	-13~122	
	heating	°C	-25~30	-25~30	-25~30	-25~30	
	heating	°F	-13~86	-13~86	-13~86	-13~86	
Qty'per 20' /40' /40'HQ	outdoor unit		102/216/216	44/96/144	44/96/144	22/46/46	

* Energy Star certified

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Your actual Multi-Room Ductless Inverter Heat Pump system and related devices may differ from the images shown in this specification sheet.

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