

Single Zone
HYPER



INDOOR UNIT		CH-18MSPHFC-230VI	CH-24MSPHFC-230VI	CH-48LCFCI
Power Supply	V-Hz-Ph	208-230V / 60Hz/1Ph	208-230V / 60Hz/1Ph	208-230V/60Hz/1Ph
Cooling Capacity	Btu/h	18,000	24,000	48,000
Minimum Circuit Ampacity (MCA)	A	1.9	2.5	2.3
MAX.FUSE	A	15	15	15
Air Flow (Hi/Mi/Lo) (No duct)	CFM	578/521/465	759/708/598	1350/1120/1000
Noise Level (Hi/Mi/Lo)	dB(A)	47/44/39	53/48/42	57/54/52
Unit Dimension (WxDxH)	in	42.05x26.57x9.25	42.05x26.57x9.25	64.96x26.57x9.25
Package Dimension (WxDxH)	in	45.08x29.72x12.32	45.08x29.72x12.32	67.91x29.72x12.32
Net/Gross Weight	lb	55.12/65.48	58.42/69.23	83.78/97
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	1/4" / 1/2"	3/8" / 5/8"	3/8"/5/8"
OUTDOOR UNIT		CH-HYP18SPH-230VO	CH-HYP24SPH-230VO	CH-HYP48LCUO
Power supply	V-Hz-Ph	208-230V/60Hz/1Ph	208-230V/60Hz/1Ph	208-230V/60Hz/1Ph
Cooling	Capacity	17,000	24,000	48,000
	EER	12.5	11.5	8.2
	SEER	19.9	20.0	17.0
Heating	Capacity	18,000	24,000	50,000
	COP	3.48	3.52	2.97
	HSPF4	10.6	11.5	10.8
	HSPF5	9.2	10.0	9.1
Minimum circuit ampacity	A	18.0	20.0	36.3
Max. fuse	A	25.0	30.0	50.0
Air flow (max)	CFM	1355	2354	4470
Outdoor noise level	dB(A)	59.0	61.0	65.0
Outdoor unit	Dimension (WxDxH)	33.27x14.29x27.64	37.24x16.14x31.89	37.48x16.34x52.48
	Packing (WxDxH)	37.99x15.55x30.11	42.91x19.69x34.45	43.11x19.49x58.27
	Net/Gross weight	107.4/115.1	135.58/148.81	227.07/255.73
Refrigerant type/Quantity	oz	R410A/68.8	R410A/91.7	R410A/148
Refrigerant precharge (Total pipe length)	ft	25	25	25
Additional charge for each ft	oz	0.16	0.32	0.32
Design pressure	PSIG	550/340	550/340	550/340
Refrigerant piping	Liquid side/Gas side	in	1/4"/1/2"	3/8"/5/8"
	Max. refrigerant pipe length	ft	98	213
	Max. difference in level	ft	66	98
Ambient temperature	Cooling	F°	-22~-122	-22~-122
	Heating	F°	-22~-86	-22~-86

Multi Zone
HYPER



INDOOR UNIT		CH-18MSPHFC-230VI			CH-24MSPHFC-230VI	
Power Supply	V-Hz-Ph	208-230V / 60Hz/1Ph			208-230V / 60Hz/1Ph	
Cooling Capacity	Btu/h	18,000			24,000	
Minimum Circuit Ampacity (MCA)	A	1.9			2.5	
MAX.FUSE	A	15			15	
Air Flow (Hi/Mi/Lo) (No duct)	CFM	578/521/465			759/708/598	
Noise Level (Hi/Mi/Lo)	dB(A)	47/44/39			53/48/42	
Unit Dimension (WxDxH)	in	42.05x26.57x9.25			42.05x26.57x9.25	
Package Dimension (WxDxH)	in	45.08x29.72x12.32			45.08x29.72x12.32	
Net/Gross Weight	lb	55.12/65.48			58.42/69.23	
Design pressure	PSIG	550/340			550/340	
Room Temperature	F°	62~90/32~86			62~90/32~86	
Liquid side/ Gas side	in	1/4 - 1/2			3/8 - 5/8	
OUTDOOR UNIT		CH-HYP28MSPH230VO	CH-HYP36MSPH230VO	CH-HYP48MSPH230VO	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	208-230V,60Hz, 1Ph
Cooling	Capacity	Btu/h	28,000	36,000	48,000	36,000
	EER	Btu	13	13.5	11.6	13.5
	SEER		22	21.5	21.5	21.5
Heating	Capacity	Btu/h	28,000	36,000	49,000	36,000
	COP		3.5	3.8	3.59	3.8
	HSPF4		10.4	10.5	10.3	10.5
	HSPF5		9.0	8.8	8.6	8.8
Minimum circuit ampacity	A	30	35	35	35	35
Max. fuse	A	45	50	50	50	50
Air flow (max)	CFM	2130	4500	4500	4500	4500
Outdoor noise level	dB(A)	62.3	64	64	64	64
Outdoor unit	Dimension (WxDxH)	in	37.24x16.14x31.89	37.48x16.34x52.48	37.48x16.34x52.48	37.48x16.34x52.48
	Packing (WxDxH)	in	42.91x19.69x34.84	43.11x19.49x58.27	43.11x19.49x58.27	43.11x19.49x58.27
	Net/Gross weight	lb	156.53/167.55	223.77/255.07	238.32/269.84	223.77/255.07
Refrigerant type/Quantity	oz	R410A/105.8	R410A/162.3	R410A/162	R410A/162.3	R410A/162
Refrigerant precharge (Total pipe length)	ft	75	100	125	100	125
Additional charge for each ft	oz	0.16	0.16	0.32	0.16	0.32
Design pressure	PSIG	550/340	550/340	550/340	550/340	550/340
Refrigerant piping	Liquid side/Gas side	in	3x1/4 - 2x3/8 - 1x1/2	4x1/4 - 2x3/8 - 2x1/2	5x1/4 - 3x3/8 - 2x1/2	4x1/4 - 2x3/8 - 2x1/2
	Max. length for one indoor unit	ft	98	115	115	115
	Max. height difference between indoor and outdoor unit	ft	49	49	49	49
Ambient temperature	Cooling	F°	-22~-122	-22~-122	-22~-122	-22~-122
	Heating	F°	-22~-86	-22~-86	-22~-86	-22~-86

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. © 04.2020 All rights reserved.

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Compatibility Table

Outdoor			18K	24K	36K	48K	60K
			CH-18MSPHFC-230VI	CH-24MSPHFC-230VI	CH-36LCFCI	CH-48LCFCI	CH-60LCFCI
Sophia Single Zone	18K	CH-18SPH-230VO	✔				
	24K	CH-24SPH-230VO		✔			
Sophia Single Zone Hyper	18K	CH-HYP18SPH-230VO	✔				
	24K	CH-HYP24SPH-230VO		✔			
Sophia Multi Zone	28K (2-3 zones)	CH-28MSPH-230VO	✔				
	36K (2-4 zones)	CH-36MSPH-230VO	✔	✔			
	48K (2-5 zones)	CH-48MSPH-230VO	✔	✔			
Sophia Multi Zone Hyper	28K (2-3 zones)	CH-HYP28MSPH-230VO	✔				
	36K (2-4 zones)	CH-HYP36MSPH-230VO	✔	✔			
	48K (2-5 zones)	CH-HYP48MSPH-230VO	✔	✔			
Light Commercial	24K	CH-24LCUO		✔			
	36K	CH-36LCUO			✔		
	48K	CH-48LCUO				✔	
Light Commercial Hyper	60K	CH-60LCUO					✔
	48K	CH-HYP48LCUO					

Multi Zone Combinations

Universal Floor Ceiling types are not available in capacities lower than 18k BTU/h. The 9K and 12K BTU/h units in this chart represent Wall Mounted units, Ceiling Cassettes, or Mini Floor Consoles. No more than one Universal Floor Ceiling unit may be connected to an outdoor unit, regardless of its overall capacity.

Two Units	Three Units	Four Units	Five Units
9K + 18K	9K + 9K +18K	9K + 9K + 9K + 18K	9K + 9K + 9K + 9K + 18K
9K + 24K	9K + 9K +24K	9K + 9K + 9K + 24K	9K + 9K + 9K + 9K + 24K
12K + 18K	9K + 12K + 18K	9K + 9K + 12K + 18K	9K + 9K + 9K + 12K + 18K
12K + 24K	9K + 12K + 24K	9K + 9K + 12K + 24K	9K + 9K + 9K + 18K + 18K
18K + 18K	9K + 18K + 18K	9K + 9K + 18K + 24K	9K + 9K + 12K + 12K + 12K
18K + 24K	9K + 18K + 24K	9K + 12K + 12K + 18K	9K + 9K + 12K + 12K + 18K
24K + 24K	9K + 24K + 24K	9K + 12K + 18K + 18K	9K + 12K + 12K + 12K + 18K
	12K + 12K + 18K	9K + 12K + 12K + 24K	
	12K + 12K + 24K	9K + 9K + 18K + 18K	
	12K + 18K + 18K	9K + 9K + 18K + 24K	
	12K + 12K + 24K	9K + 18K + 18K + 18K	
	12K + 18K + 18K	12K + 12K + 12K + 18K	
	12K + 18K + 24K	12K + 12K + 18K + 18K	
	12K + 24K + 24K	12K + 12K + 12K + 24K	
	18K + 18K + 18K		
	18K + 18K + 24K		

Single Zone



INDOOR UNIT			CH-18MSPHFC-230VI	CH-24MSPHFC-230VI	CH-36LCFCI	CH-48LCFCI	CH-60LCFCI		
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		18,000	24,000	36,000	48,000	54,000		
Minimum Circuit Ampacity (MCA)	A		1.9	2.5	1.9	2.3	3.0		
MAX.FUSE	A		15	15	15	15	15		
Air Flow (Hi/Mi/Lo) (No duct)	CFM		578/521/465	759/708/598	1037/917/638	1350/1120/1000	1385/1029/796		
Noise Level (Hi/Mi/Lo)	dB(A)		47/44/39	53/48/42	54/49/43	57/54/52	55/39/50		
Unit Dimension (WxDxH)	in		42.05x26.57x9.25	42.05x26.57x9.25	50.59x26.57x9.25	64.96x26.57x9.25	64.96x26.57x9.25		
Package Dimension (WxDxH)	in		45.08x29.72x12.32	45.08x29.72x12.32	53.54x29.72x12.32	67.91x29.72x12.32	67.91x29.72x12.32		
Net/Gross Weight	lb		55.12/65.48	58.42/69.23	69/81.57	83.78/97	101.2/110		
Design pressure	PSIG		550/340	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	62~90/32~86		
Liquid side/Gas side	in		1/4 - 1/2	3/8 - 5/8	3/8 - 5/8	3/8 - 5/8	3/8 - 3/4		
OUTDOOR UNIT			CH-18SPH-230VO	CH-24SPH-230VO	CH-24LCU/O	CH-36LCU/O	CH-48LCU/O	CH-60LCU/O	
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	18,000	24,000	24,000	36,000	48,000	54,000	
	EER	Btu	13.0	12.5	12.5	8.0	9.3	9.8	
	SEER		20.8	20.5	20.5	16.0	17.8	18.0	
Heating	Capacity	Btu/h	18,000	25,000	24,000	38,000	50,000	60,000	
	COP		3.36	3.17	3.81	2.8	3.2	3.16	
	HSPF4		10.0	10	12.5	10.0	11.0	10.5	
	HSPF5		8.0	8.3	10.6	8.7	9.4	9.1	
Minimum circuit ampacity			A	15	18	20.0	30.0	35.0	36.0
Max. fuse			A	20	25	30.0	50.0	50.0	50.0
Air flow (max)			CFM	1470	2355	2354	2530	4470	4470
Outdoor noise level			dB(A)	61.0	61.0	61.0	66.0	62.5	65.0
Outdoor unit	Dimension (WxDxH)	in	33.27x14.29x27.64	37.24/16.14/31.89	37.24x16.14x31.89	37.24x16.14x31.89	37.48x16.34x52.48	37.48x16.34x52.48	
	Packing (WxDxH)	in	38.00x15.55x29.72	42.91x19.69x34.45	42.91x19.69x34.45	42.91x19.69x34.45	43.11x19.49x58.27	43.11x19.49x58.27	
	Net/Gross weight	lb	101.0/108.2	136.69/147.27	135.58/148.81	148.59/160.94	217.4/246.0	224.9/254.4	
Refrigerant type/Quantity			oz	R410A/68.8	R410A/82.9	R410A/91.7	R410A/107.6	R410A/148.2	R410A/163
Refrigerant precharge (Total pipe length)			ft	25	25	25	25	25	25
Additional charge for each ft			oz	0.16	0.32	0.32	0.32	0.32	0.32
Design pressure			PSIG	550/340	550/340	550/340	550/340	550/340	550/340
Refrigerant piping	Liquid side/Gas side	in	1/4 - 1/2	3/8 - 5/8	3/8 - 5/8	3/8 - 5/8	3/8 - 5/8	3/8 - 3/4	
	Max. refrigerant pipe length	ft	98	164	164	213	213	213	
	Max. difference in level	ft	66	82	82	98	98	98	
Ambient temperature	Cooling	F°	-13~122	-13~122	-22~122	5~122	5~122	5~122	
	Heating	F°	-13~86	-13~86	-22~86	5~86	5~86	5~86	



Multi Zone



INDOOR UNIT			CH-18MSPHFC-230VI			CH-24MSPHFC-230VI		
Power Supply		V-Hz-Ph	208-230V / 60Hz/1Ph			208-230V / 60Hz/1Ph		
Cooling Capacity		Btu/h	18,000			24,000		
Minimum Circuit Ampacity (MCA)		A	1.9			2.5		
MAX.FUSE		A	15			15		
Air Flow (Hi/Mi/Lo) (No duct)		CFM	578/521/465			759/708/598		
Noise Level (Hi/Mi/Lo)		dB(A)	47/44/39			53/48/42		
Unit Dimension (WxDxH)		in	42.05x26.57x9.25			42.05x26.57x9.25		
Package Dimension (WxDxH)		in	45.08x29.72x12.32			45.08x29.72x12.32		
Net/Gross Weight		lb	55.12/65.48			58.42/69.23		
Design pressure		PSIG	550/340			550/340		
Room Temperature		F°	62~90/32~86			62~90/32~86		
Liquid side/Gas side		in	1/4 - 1/2			3/8 - 5/8		
OUTDOOR UNIT			CH-28MSPH230VO	CH-36MSPH230VO	CH-48MSPH230VO	CH-36MSPH230VO	CH-48MSPH230VO	
Power supply		V-Hz-Ph	208-230V/60Hz, 1 Ph	208-230V/60Hz, 1 Ph	208-230V/60Hz/1Ph	208-230V/60Hz, 1 Ph	208-230V/60Hz/1Ph	
Cooling	Capacity	Btu/h	27,000	36,000	48,000	36,000	48,000	
	EER	Btu	12.0	10.9	11.6	10.9	11.6	
	SEER		22.0	22.5	21.5	22.5	21.5	
Heating	Capacity	Btu/h	28,000	36,000	48,000	36,000	48,000	
	COP		3.7	3.1	3.4	3.1	3.4	
	HSPF4		9.8	10.3	10.4	10.3	10.4	
	HSPF5		8.0	9.0	8.6	9.0	8.6	
Minimum circuit ampacity		A	25	30	35	30	35	
Max. fuse		A	35	45	50	45	50	
Air flow (max)		CFM	2130	2130	4500	2130	4500	
Outdoor noise level		dB(A)	63.4	62.3	64	62.3	64	
Outdoor unit	Dimension (WxDxH)	in	37.24x16.14x31.89	37.24x16.14x31.89	37.48x16.34x52.48	37.24x16.14x31.89	37.48x16.34x52.48	
	Packing (WxDxH)	in	42.91x19.69x34.45	42.91x19.69x34.45	43.11x19.49x58.27	42.91x19.69x34.45	43.11x19.49x58.27	
	Net/Gross weight	lb	152.12/160.94	156.53/167.55	223.77/255.07	156.53/167.55	223.77/255.07	
Refrigerant type/Quantity		oz	R410A/98.8	R410A/105.8	R410A/162.3	R410A/105.8	R410A/162.3	
Refrigerant precharge (Total pipe length)		ft	74	98	123	98	123	
Additional charge for each ft		oz	0.16	0.16	0.16	0.16	0.16	
Design pressure		PSIG	550/340	550/340	550/340	550/340	550/340	
Refrigerant piping	Liquid side/Gas side	in	3x1/4 - 3/8	4x1/4 - 3x3/8 - 1x1/2	5x1/4 - 3x3/8 - 2x1/2	4x1/4 - 3x3/8 - 1x1/2	5x1/4 - 3x3/8 - 2x1/2	
	Max. refrigerant pipe length	ft	197	262	262	262	262	
	Max. difference in level	ft	98	115	115	115	115	
Ambient temperature	Cooling	F°	-13~122	-13~122	-13~122	-13~122	-13~122	
	Heating	F°	-13~86	-13~86	-13~86	-13~86	-13~86	