



Single Zone



INDOOR UNIT		CH-M09DTUI	CH-M12DTUI	CH-M18DTUI	CH-M24DTUI
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	1.1	1.1	1.2	1.5
MAX. FUSE	A	15	15	15	15
Air Flow (Hi/Mi/Lo)	CFM	353/283/177	353/283/177	530/450/371	776/694/435
Noise Level (Hi/Mi/Lo)	dB(A)	38/35/32	38/36/33.5	39/37/35	44/41/38
Unit Dimension (WxDxH)	in	27.6x19.9x7.9	27.6x19.9x7.9	34.7x26.5x8.3	43.3x30.5x9.8
Packing Dimension (WxDxH)	in	33.9x21.3x11.2	33.9x21.3x11.2	42.1x28.5x10.6	51.4x31.7x12
Net/Gross Weight	lb	37.5/48.3	37.5/48.3	52.5/65	86.9/103
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	
	EER	13.5	12.5	12.5	12.5	
	SEER	20.5	21.5	19	21.5	
Heating	Capacity	10,000	12,000	18,000	24,000	
	COP	3.37	3.29	3.14	3.52	
	HSPF4	11.5	11.5	10.5	11	
	HSPF5	10	9	9	9.5	
	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	31.5x13.1x21.8	33.3x14.3x27.6	37.2/16.1/31.9	
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	136.9/148.6	
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"	
	Max. refrigerant pipe length	ft	82	82	98	164
	Max. difference in level	ft	33	33	66	82
Ambient temperature	cooling	F°	-13-122	-13-122	-13-122	
	heating	F°	-13-86	-13-86	-13-86	-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	9,000	12,000	16,500	24,000	
	EER	13.5	12.5	12.5	12.5	
	SEER	23	20.5	19.6	20.5	
Heating	Capacity	10,000	12,000	19,000	24,000	
	COP	3.6	3.3	2.93	3.81	
	HSPF4	12	11	11	12.5	
	HSPF5	10	9.5	9.3	10.6	
	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"	
	Max. refrigerant pipe length	ft	82	82	98	164
	Max. difference in level	ft	33	33	66	82
Ambient temperature	cooling	F°	-22-122	-22-122	-22-122	
	heating	F°	-22-86	-22-86	-22-86	-22-86



Single Zone Light Commercial

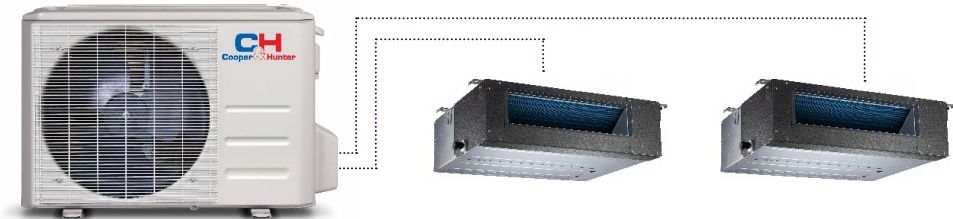


INDOOR UNIT		CH-M24DTUI	CH-36LCDTUI	CH-48LCDTUI	CH-60LCDTUI
Power Supply	V-Hz-Ph	208-230V / 60Hz/1Ph	208-230V / 60Hz/1Ph	208-230V / 60Hz/1Ph	208-230V / 60Hz/1Ph
Cooling Capacity	Btu/h	24,000	36,000	48,000	57,000
Minimum Circuit Ampacity (MCA)	A	1.5	1.5	1.5	5
MAX. FUSE	A	15	15	15	15
Air Flow (Hi/Mi/Lo) (No duct)	CFM	776/694/435	1,082/912/703	1,229/1,032/715	2,157/1,710/1,262
Noise Level (Hi/Mi/Lo)	dB(A)	44/41/38	45.5/42/39	50.5/47/43	50.5/47/43
Unit Dimension (WxDxH)	in	43.3x30.5x9.8	53.5x30.5x9.8	47.2x34.4x11.8	55.1x33.8x17.3
Packing Dimension (WxDxH)	in	51.4x31.7x12	61.8x31.7x12	55.3x36x14	63.2x35.8x19.9
Net/Gross Weight	lb	86.9/103	106.5/122.4	119.7/141.8	163.1/189.6
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	3/8" - 5/8"	3/8" - 5/8"	3/8" - 5/8"	3/8" - 3/4"

LIGHT COMMERCIAL SERIES OUTDOOR UNIT		CH-24LCUO	CH-36LCUO	CH-HYP36LCUO	CH-HYP48LCUO	CH-48LCUO	CH-60LCUO
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	208-230V/60Hz/1Ph
Cooling	Capacity	Btu/h	24,000	36,000	36,000	48,000	57,000
	EER	Btu	12.5	9	9	8.7	9.2
	SEER		20.5	16.5	16.5	16	17.4
Heating	Capacity	Btu/h	24,000	40,000	40,000	48,000	49,500
	COP		3.81	3.37	3.37	3.05	3.52
	HSPF4		12.5	11.5	11.5	11.1	10.3
	HSPF5		10.6	10	10	9.7	8.8
	Minimum Circuit Ampacity (MCA)	A	20	30	39	36.3	35
MAX. FUSE	A	30	50	50	50	50	
Air Flow (max)	CFM	2,354	2,530	4,470	4,470	4,470	
Noise Level	dB(A)	61	66	65	65	62.5	
Unit Dimension (WxDxH)	in	37.2x16.1x31.9	37.2x16.1x31.9	37.5x16.3x52.5	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	43.1x19.5x58.3	
Net/Gross weight	lb	135.6/148.8	148.6/160.9	222.3/248	227.1/255.7	217.4/246	
Refrigerant type/Quantity	oz	R410A/91.7	R410A/107.6	R410A/148	R410A/148	R410A/148.2	
Refrigerant precharge (Total pipe length)	ft	25	25	25	25	25	
Additional charge for each ft	oz	0.32	0.32	0.32	0.32	0.32	
Design pressure	PSIG	550/340	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	



Multi Zone



INDOOR UNIT		CH-M09DTUI	CH-M12DTUI	CH-M18DTUI	CH-M24DTUI
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	1.1	1.1	1.2	3
MAX. FUSE	A	15	15	15	15
Air Flow (Hi/Mi/Lo) (No duct)	CFM	353/283/177	353/283/177	530/450/371	776/694/435
Noise Level (Hi/Mi/Lo)	dB(A)	38/35/32	38/36/33.5	39/37/35	44/41/38
Unit Dimension (WxDxH)	in	27.6x19.9x7.9	27.6x19.9x7.9	34.7x26.5x8.3	43.3x30.5x9.8
Packing Dimension (WxDxH)	in	33.9x21.3x11.2	33.9x21.3x11.2	42.1x28.5x10.6	51.4x31.7x12
Net/Gross Weight	lb	37.5/48.3	37.5/48.3	52.5/65	86.9/103
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	Btu	12.5	12	10.9
	SEER		21.3	22	22.5
Heating	Capacity	Btu/h	18,000	28,000	36,000
	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	62.4	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")	
	Max. length for all rooms	ft	131	197	
	Max. length for one indoor unit	ft	82	98	
Ambient temperature	cooling	F°	-13-122	-13-122	
	heating	F°	-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	Btu	12.5	13	13.5
	SEER		21.5	22	21.5
Heating	Capacity	Btu/h	20,000	28,000	36,000
	COP		3.4	3.5	3.8
	HSPF4		9.8	10.4	10.5
	HSPF5		8.5	9	8.8
	Minimum Circuit Ampacity (MCA)	A	25	30	35
MAX. FUSE	A	35	45	50	
Air Flow (max)	CFM	2,130	2,130	4,500	
Noise Level	dB(A)	63.4	62.3	64	
Unit Dimension (WxDxH)	in	37.2x16.1x31.9	37.2x16.1x31.9	37.5x16.3x52.5	
Packing Dimension (WxDxH)	in	42.9x19.7x34.8	42.9x19.7x34.8	43.1x19.5x58.3	
Net/Gross weight	lb	152.1/160.9	156.5/167.6	223.8/255.1	
Refrigerant type/Quantity	oz	R410A/98.8</			