

LIMITED WARRANTY
7 YEARS COMPRESSOR
5 YEARS PARTS

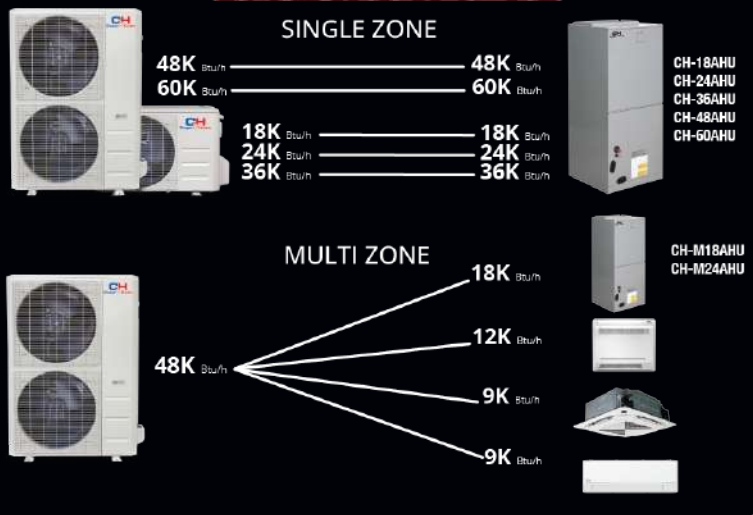
MULTI POSITION AIR HANDLER UNIT
 SINGLE & MULTI ZONE COMPATIBLE

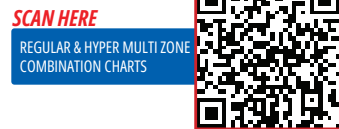
UP TO 18.4 SEER2



SAMPLE CONFIGURATIONS

SINGLE ZONE





MULTI POSITION AIR HANDLER UNIT

AHU 18K, 24K, 36K, 48K, 60K Btu/h

INTELLIGENT AIR FLOW: • Variable speed fan motor (3 speeds available)

• Static air pressure can be adjusted automatically or manually



ANTI-COLD AIR FUNCTION: Fan doesn't blow until the coil is warm, so cold air is not pushed into the room upon startup

FAST COOL/HEAT FUNCTION: When set temperature is more than 10 degrees difference from room temperature, the unit will run at 100% capacity to reach it faster

AUTO DEFROST: Prevents the outdoor unit from freezing up

- Horizontal discharge condensing units to save installation space
- Self diagnosis error codes

ALUMINUM COIL: Fewer corrosion points than copper coils

AUXILIARY HEATER: Can be purchased separately as a back up heat option for indoor units. Available in 5kW, 10kW, 15kW, and 20 kW models

AUTO RESTART FUNCTION: Auto restart in the event of a power outage

REFRIGERANT LEAK DETECT: Protects the compressor from damage due to refrigerant leak by alerting user with error code "EC"

WIRED CONTROLLER: Compatible with most 24V wired thermostats

WIFI READY: C&H WIFI Kit enables control with C&H Remote app via IOS or Android smart device

TRUE MULTI POSITION AIR HANDLER: Horizontal, vertical, upward,



INDOOR			CH-M18AHU	CH-M24AHU	CH-36AHU	CH-48AHU	CH-M18AHU	CH-M24AHU	CH-36AHU	CH-48AHU	CH-60AHU
Power supply	Rated	V, Ph, Hz	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230V,1Ph 60Hz	208/230V,1Ph 60Hz	208/230, 1, 60	208/230, 1, 60	208/230V,1Ph 60Hz
	Rated Capacity (range)	Btu/h	18,000	24,000	36,000	48,000	18,000	24,000	36,000	48,000	60,000
Minimum Circuit Ampacity (MCA)		A	3	4	5	7.5	3	4	5	7.5	9
Max. Fuse		A	15	15	15	15	15	15	15	15	15
Indoor air flow (Hi/Mi/Lo)		CFM	576/529/488	759/694/629	1840/1650/1470	2180/1860/1540	576/529/488	759/694/629	1,082/970/865	1,282/1,094/906	1,582/1,359/1,135
Indoor noise level (Hi/Mi/Lo)		dB(A)	39/37/35	41/39/38	47/42/40	53/47/43	38/35/34	42/40/38	50/45/42	51/48/45	51/47/45
ESP		Range	0-0.8	0-0.8	0-0.8	0-0.8	0-0.8	0-0.8	0-0.8	0-0.8	0-0.8
Indoor	Dimension (W*D*H)	inch	17.52x21.02x45	17.52x21.02x45	21.02x21.02x49.02	21.02x21.02x49.02	17.52x21.02x45	17.52x21.02x45	21.02x21.02x49.02	21.02x21.02x49.02	21.02x24.49x52.99
	Packing (W*D*H)	inch	20.87x26.57x48.62	20.87x26.57x48.62	24.41x26.57x52.56	24.41x26.57x52.56	20.87x26.57x48.62	20.87x26.57x48.62	24.41x26.57x52.56	24.41x26.57x52.56	26.77x27.95x56.5
	Net/Gross weight	lbs.	107/127	107/127	129/153	132/155	107/127	107/127	130/153	132/156	164/190
Room Temperature	Cooling	F	60-90	60-90	60-90	60-90	60-90	60-90	60-90	60-90	60-90
	Heating	F	32-86	32-86	32-86	32-86	32-86	32-86	32-86	32-86	32-86
Liquid Side/Gas side		inch	1/4" / 1/2"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	1/4" / 1/2"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 7/8"

HYPER

REGULAR

OUTDOOR			HPR Series	HPR Series	HPR Series	HPR Series	ES Series	ES Series	Light Commercial	Light Commercial	Light Commercial
Series			CH-HPR18-230VO	CH-HPR24-230VO	CH-NHPR36LCU-230VO	CH-NHPR48LCU-230VO	CH-ES18-230VO	CH-ES24-230VO	CH-N36LCU-230VO	CH-N48LCU-230VO	CH-N60LCU-230VO
Power supply	Rated	V, Ph, Hz	208-230, 1, 60	208-230, 1, 60	208-230, 1, 60	208-230, 1, 60	208-230, 1, 60	208-230, 1, 60	208-230, 1, 60	208-230, 1, 60	208-230, 1, 60
	Voltage range	V	187-253	187-253	187-253	187-253	187-253	187-253	187-253	187-253	187-253
Cooling	Rated Capacity Range	Btu/h	18,000 (8,600-20,000)	23,000 (7,500-26,000)	36,000(12,000-41,000)	47,000(11,000-48,500)	18,000 (6,400-19,600)	24,000 (9,600-28,000)	36,000 (9,800-41,000)	48,000 (13,000-51,900)	57,000 (11,000-60,000)
	Rated current	A	9.1	9	15	25	6.6	9	18	24.5	25.5
	EER	Btu/w	11.7	11.7	10	7.8	11.7	11.7	8.2	8.2	9.6
	SEER2	Btu/w	17.6	18.4	14.9	14.6	17.8	18	15.4	15.3	16
Heating at 47°F	Rated Capacity Range	Btu/h	19,000 (9,000-21,000)	26,000 (5,600-29,000)	40,000(9,800-45,000)	48,000(10,500-55,500)	19,000 (5,200-21,000)	25,000 (8,600-27,000)	38,000 (9,200-43,000)	55,000 (16,000-58,000)	60,000 (15,500-60,400)
	Rated current	A	9.3	10	16	19	7	10.2	16.3	26.5	24
	COP	W/W	3.39	3.5	3.1	2.96	3.55	3.43	3.1	2.94	3.4
	HSPF4	Btu/w	9.6	9.3	8.9	8.8	9.3	8.1	9	9.2	8.5
HSPF5	Btu/w	8.1	7.5	7.5	7.3	7.3	6.5	7	7.2	6.7	
Heating at 5°F (-15°C)	Rated Capacity	Btu/h	18,000	24,800	36,000	46,000	10,000	16,000	20,500	28,000	30,000
MINIMUM CIRCUIT AMPACITY		A	20	25	41	37	19	22	30	36	39
MAX. FUSE		A	25	35	50	50	30	30	45	50	50
Outdoor air flow (Max.)		CFM	1,765	2,235	4,500	4,500	1,765	2,235	3,000	4,500	4,411
Outdoor noise level		dB(A)	59	62	63	64	59	60	65	63.5	61
Outdoor unit	Dimension (WxDxH)	inch	35.04x13.46x26.50	37.24x16.14x31.89	37.48x16.34x52.48	37.48x16.34x52.48	35.04x13.46x26.50	37.24x16.14x31.89	37.24x16.14x31.89	37.48x16.34x52.48	37.48x16.34x52.48
	Packing (WxDxH)	inch	39.17x15.67x29.13	42.91x19.69x34.84	43.11x19.49x58.27	43.11x19.49x58.27	39.17x15.67x29.13	42.91x19.69x34.84	42.91x19.69x34.84	43.11x19.49x58.27	43.11x19.49x58.27
Net/Gross weight		lbs	101/108	134/144	220/248	227/255	94/101	125/135	155/166	219/249	217/248
Refrigerant Type/Quantity		oz	R410A/65	R410A/92	R410A/148	R410A/148	R410A/56	R410A/83	R410A/113	R410A/159	R410A/169
Refrigerant precharge		ft	25	25	25	25	25	25	25	25	25
Additional charge for each ft		oz/ft	0.16	0.32	0.32	0.32	0.16	0.32	0.32	0.32	0.32
Design pressure		PSIG	550/340	550/340	550/340	550/340	550/340	550/340	550/340	550/340	550/340
Refrigerant piping Liquid side/Gas side		inch	1/4" / 1/2"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	1/4" / 1/2"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 7/8"
Max. pipe length		ft	98	164	213	213	98	164	213	213	213
Max. difference in level		ft	66	82	98	98	66	82	98	98	98
Ambient temperature	Cooling	ft	-22-122	-22-122	-22-122	-22-122	-13-122	-13-122	5-122	5-122	5-122
	Heating	F	-22-75	-22-75	-22-75	-22-75	-13-86	-13-86	5-75	5-75	5-75
Certification		AHRI	✓	✓	✓	✓	✓	✓	✓	✓	✓
		UL	✓	✓	✓	✓	✓	✓	✓	✓	✓

OUTDOOR CONDENSERS

GOLD FIN Gold coating on the condenser withstands the salty air, rain and other corrosive elements, to prevent bacteria growth

DRAIN PAN HEATER Factory installed drain pan heater in outdoor unit prevents ice accumulation, which improves heat transfer efficiency

HIGH-EFFICIENCY PIPES
54 teeth to increase heat exchange

HIGH-FREQUENCY RACER TECHNOLOGY
Enables the compressor to reach maximum speed within 6 seconds on start up

INTELLIGENT DUSTING SWITCH
Reverses the fan to clean dust, sand, and other debris from the coil



ACCESSORIES



CONTROL OPTIONS

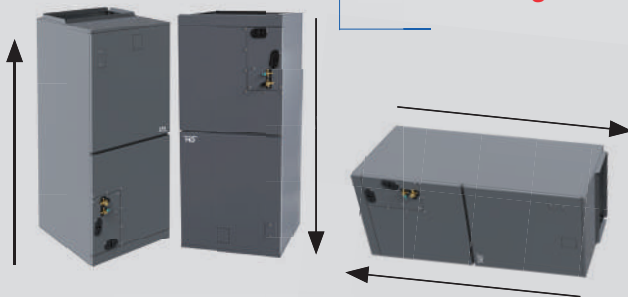
- 24V wall thermostat included
- Remote control included
- WIFI Smart + Port Kit (not included)
- Downloadable C&H app

FILTERS

Recommended Size of Filter	Width inch:	Depth inch:	Trim inch:	
18K-24K	CH-M18AHU	16	20	1
	CH-M24AHU			
36K-48K	CH-36AHU	19.5	20	1
	CH-48AHU			
60K	CH-60AHU	23	20	1

ELECTRIC HEATERS

INSTALLATION OPTIONS:



- Vertical Upflow
- Vertical Downflow
- Horizontal Left
- Horizontal Right

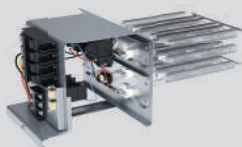
- Excellent solution for supplementary heating or higher energy efficiency in extremely cold weather
- High quality nichrome material
- Easy installation and maintenance (one piece)
- Various heater capacity options: 5kW, 10kW, 15kW and 20kW

GROUPED HEATER CONTROL

FOR MORE PRECISE TEMPERATURE

AHU Capacity	5kW heater	10kW heater	15kW heater	20kW heater
	One group	One group	Two groups	Two groups
	10KW+5KW	10KW+5KW	10KW+5KW	10KW+10KW
	W1 on 5KW	W1 on 10KW	W1 on 10KW	W1 on 10KW
18K(AHU)	Y	Y	-	-
24K(AHU)	Y	Y	Y	-
36K(AHU)	Y	Y	Y	Y
48K(AHU)	-	Y	Y	Y
60K(AHU)	-	Y	Y	Y

ELECTRIC HEATER KIT 5KW,10KW,15KW, 20KW



Electric Heater	Power	1.5 ton (18,000 BTU/h)	2 ton (24,000 BTU/h)	3 ton (36,000 BTU/h)	4 ton (48,000 BTU/h)	5 ton (60,000 BTU/h)
	Model	CH-M18AHU	CH-M24AHU	CH-36AHU	CH-48AHU	CH-60AHU
5KW		Y	Y	Y	-	-
10KW		Y	Y	Y	Y	Y
15KW		-	Y	Y	Y	Y
20KW		-	-	Y	Y	Y

THREE KINDS OF HEATING MODES

AVAILABLE FOR DIFFERENT APPLICATIONS



Heat Pump



Heater



Heater + Heat Pump

TECHNICAL SUPPORT
cooperandhunter.us | 786-953-6706

MULTI POSITION AIR HANDLER UNIT SINGLE & MULTI ZONE COMPATIBLE

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

© 04.2023 All rights reserved.

SCAN HERE FOR AHU MODELS

