



Multi-Position Air Handler Unit

SINGLE & MULTI-ZONE COMPATIBLE AIR CONDITIONER

UP TO 19.7 SEER2



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AHU 18K, 24K, 30K, 36K, 48K, 60K Btu/h

INTELLIGENT AIR FLOW: Three speed fan motor so that static air pressure can be adjusted automatically or manually.

ANTI-COLD AIR FUNCTION: Fan doesn't blow until the coil is warm to prevent pushing cold air into the room upon startup.

TU1 COPPER TUBES: Oxygen-free copper with higher purity copper content of over 99.97%, providing excellent electrical and thermal conductivity and superior corrosion and cold resistance.

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 its set temperature faster.

ALUMINUM COIL: Fewer corrosion points than copper coils.

AUXILIARY HEATER: Purchased separately as a backup heat option for indoor units, available in 5kW, 10kW, 15kW, and 20kW models.

AUTO RESTART FUNCTION: Restarts automatically in the event of a power outage.

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

WIRED CONTROLLER: Compatible with most 24V wired thermostats.

TRUE MULTI-POSITION AIR HANDLER: Can be installed in Horizontal or Vertical upward and downward positions for optimal space usage.



CONTROL OPTIONS

- Wall Thermostat Included
- Remote control Included
- Downloadable C&H app

Refrigerant
Sensor

OUTDOOR CONDENSERS

INVERTER TECHNOLOGY: Promotes energy efficiency by keeping the motor running to create a gentle on/off process.

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, improving heat transfer efficiency.

ELECTRONIC EXPANSION VALVE: Helps to manage the refrigerant flow.

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.



Wall Thermostat should
be connected to the unit
to be Smart

INDOOR

Indoor Model			CH-RS18MAHU	CH-RS24MAHU	CH-RS36LCAHU	CH-RS48LCAHU	CH-RS60LCAHU	CH-RS18MAHU	CH-RS24MAHU	CH-RS30MAHU	CH-RS36LCAHU	CH-RS48LCAHU	CH-RS60LCAHU
Power Supply	Rated	V, Ph, Hz	208-230V, 1Ph, 60Hz	208-230V, 1Ph, 60Hz	115V or 230V, 1Ph, 60Hz	115V or 230V, 1Ph, 60Hz	115V or 230V, 1Ph, 60Hz	208-230V, 1Ph, 60Hz	208-230V, 1Ph, 60Hz	208-230V, 1Ph, 60Hz	115V or 230V, 1Ph, 60Hz	115V or 230V, 1Ph, 60Hz	115V or 230V, 1Ph, 60Hz
Cooling	Rated Capacity	Btu/h	18,000	23,000	36,000	48,000	54,000	18,000	24,000	30,000	36,000	48,000	60,000
	Rated Current	A	9.1	8.7	13.4	22	24	6.7	9.3	12.5	17.4	21.5	25.5
Heating	Rated Capacity	Btu/h	19,500	26,000	38,000	50,000	59,000	18,000	25,000	30,000	38,000	50,000	59,000
	Rated Current	A	9.5	9.7	14.3	19	21.8	6.7	9.2	11.2	14.4	22	24
Minimum Circuit Ampacity (MCA)		A	3.5	4	5	7.5	9	3.5	4	6	6	9.8	11
Max. Fuse		A	15	15	15	15	15	15	15	15	15	15	15
Indoor Air Flow (Turbo/HI/Mi/Lo/Si)		CFM	618.0/576.8/529.7/488.5 / N/A	824.0/759.3/694.5/629.8 / N/A	1189/1083/971.2/865.2 / N/A	1601/1471.5/1283.1/1094.8 / N/A	1807/1553.9/1353.8/724 / N/A	618.0/576.8/529.7/488.5 / N/A	824.0/759.3/694.5/629.8 / N/A	988.8/894.7/806.4/712.2 / N/A	1189.0/1083.0/971.2/865.2 / N/A	1601.0/1471.5/1283.1/1094.8 / N/A	1807.0/1553.9/1353.8/724.0 / N/A
Indoor Noise Level (Turbo/HI/Mi/Lo/Si)		dB(A)	N/A/42.5/37.5/30.0/N/A	N/A/43.5/40/25.5/N/A	N/A/47/42/30.5/N/A	56.5/54.5/51/48//	N/A/53.0/48.0/33.5/N/A	N/A/42/39.5/33/N/A	N/A/43.5/41.5/28.5/N/A	N/A/44/41/26/N/A	N/A/47.0/42.0/31.0/N/A	56.5/54/51/48/N/A	N/A/51/48/42.5/N/A
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	0-0.8	0-0.8
Indoor	Dimension (WxDxH)	inch	17.52x21.02x45.00	17.52x21.02x45.00	21.02x21.02x49.02	24.49x21.02x52.99	24.49x21.02x52.99	21.02x17.52x45.00	21.02x17.52x45.00	21.02x21.02x49.02	21.02x21.02x49.02	21.02x24.49x52.99	21.02x24.49x52.99
	Packing (WxDxH)	inch	20.87x26.57x48.62	20.87x26.57x48.62	24.41x26.57x52.56	27.95x26.77x56.50	27.95x26.77x56.50	26.57x24.41x52.56	26.57x24.41x52.56	26.57x24.41x52.56	26.57x24.41x52.56	27.95x26.77x56.50	27.95x26.77x56.50
	Net/Gross Weight	lbs.	104.72/125.66	104.28/125.88	127.87/152.78	161.82/191.58	161.82/191.58	104.72/125.66	104.28/125.88	127.43/151.68	127.87/152.78	161.82/191.58	164.02/189.82
Room Temperature	Cooling	°F	60~90	60~90	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	32~86	32~86
Liquid Side/Gas side		inch	1/4" / 1/2"	3/8" / 5/8"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	1/4" / 1/2"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"

OUTDOOR

HYPER			REGULAR										
Outdoor Model			CH-RHP18-230V0	CH-RHP24-230V0	CH-RHP36LCU-230V0	CH-RHP48LCU-230V0	CH-RHP60LCU-230V0	CH-RES18-230V0	CH-RES24-230V0	CH-REL30-230V0	CH-R36LCU-230V0	CH-R48LCU-230V0	CH-R60LCU-230V0
Power Supply	Rated	V, Ph, Hz	208-230V, 1Ph, 60Hz	208-230V, 1Ph, 60Hz	208-230V, 1Ph, 60Hz	208-230V, 1Ph, 60Hz	208-230V, 1Ph, 60Hz	208-230V, 1Ph, 60Hz	208-230V, 1Ph, 60Hz	208-230V, 1Ph, 60Hz	208-230V, 1Ph, 60Hz	208-230V, 1Ph, 60Hz	208-230V, 1Ph, 60Hz
	Voltage range	V	187-253	187-253	187-253	187-253	187-253	187-253	187-253	187-253	187-253	187-253	187-253
Cooling	Rated Current	A	9.1	8.7	13.4	22	24	6.7	9.3	12.5	17.4	21.5	25.5
	Capacity Min~Max	Btu/h	6,000~20,400	7,500~27,000	5,700~36,400	7,300~55,500	13,700~58,000	5,600~20,400	6,700~29,600	9,200~34,000	8,900~38,200	9,500~52,000	21,800~57,300
	EER2		12	12	11.7	10	10	12.1	11.7	11	9	10	9.5
	SEER2		18	18.7	17.2	17	15.2	18.5	19.7	17	15.8	17.7	16
Heating at 47°F	Capacity Min~Max	Btu/h	5,000~21,600	8,800~29,000	9,500~44,000	9,500~65,000	10,000~66,100	5,500~21,800	5,800~33,800	8,500~33,000	6,400~43,000	11,700~60,000	11,800~60,300
	COP	W/W	3.64	3.5	3.39	3.5	3.36	3.60	3.53	3.60	3.36	3.5	3.44
	HSPF4		10	10	9.5	10.2	9.2	9.8	9	8.7	9.3	10	9.1
	HSPF5		8.3	8	8	8.1	7.7	7.7	7.3	7	7.3	7.7	7.2
Heating at 5°F (-15°C)	Rated Capacity	Btu/h	18,000	23,600	38,000	46,000	53,000	13,000	18,000	20,400	24,200	35,200	35,400
Minimum Circuit Ampacity (MCA)		A	19	24.9	38	44	44	18	24	28	33	39	42
Max. Fuse		A	20	25	40	45	45	20	25	30	35	40	45
Outdoor Air Flow (Max.)		CFM	1,765.8	2,236.7	3,001.9	4,237.9	4,237.9	1,765.8	2,236.7	2,236.7	2,413.3	4,237.9	4,237.9
Outdoor Noise Level		dB(A)	59	61.5	65.5	65	62	56.5	58.5	61	62.5	65	62.5
Outdoor Unit	Dimension (WxDxH)	inch	35.04x13.46x26.50	37.24x16.14x31.89	38.58x16.34x38.39	37.48x16.34x52.48	37.48x16.34x52.48	35.04x13.46x26.50	37.24x16.14x31.89	37.24x16.14x31.89	37.24x16.14x31.89	37.48x16.34x52.48	37.48x16.34x52.48
	Packing (WxDxH)	inch	39.17x15.67x29.13	42.91x19.68x34.84	45.08x19.68x42.52	43.11x19.49x57.48	43.11x19.49x58.27	39.17x15.67x29.13	42.91x19.68x34.84	42.91x19.68x34.84	42.91x19.68x34.84	43.11x19.49x57.48	43.11x19.49x58.27
	Net/Gross Weight	lbs.	99.87/107.80	130.29/141.31	206.57/237.44	208.78/239.86	230.38/261.69	92.59/100.31	122.13/132.28	142.86/154.54	152.34/162.48	208.78/239.86	209.44/240.08
Refrigerant Type/Quantity		oz.	R454B/55.38	R454B/63.49	R445B/126.99	R445B/126.99	R445B/151.68	R454B/47.97	R454B/70.55	R454B/84.66	R454B/91.71	R454B/126.99	R454B/144.62
Refrigerant Precharge		ft.	25	25	25	25	25	25	25	25	25	25	25
Additional Charge for each ft.		oz./ft.	0.16	0.32	0.32	0.32	0.32	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	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" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	1/4" / 1/2"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 3/4"	3/8" / 3/4"
Max. Pipe Length		ft.	98.4	164	246	246	246	98.4	164	164	246	246	213.2
Max. Difference in Level		ft.	65.6	82	98.4	98.4	98.4	65.6	82	82	98.4	98.4	98.4
Ambient Temperature	Cooling	ft.	-22~122	-22~122	5~122	5~122	5~122	-13~122	-13~122	-13~122	-13~122	-13~122	-13~122
	Heating	°F	-22~75	-22~75	-22~75	-22~75	-22~75	-13~75	-13~75	-13~75	-13~75	-13~75	-13~75
Certifications	AHRI		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	ETL		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Energy Star for Cold Climate		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	NEEP		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Multi-Position Air Handler Unit



Horizontal
Installation



Vertical
Installation

The multi-position air handler units have a rating of up to 19.7 SEER2. With the new Inverter Technology used by our outdoor condenser units, the energy efficiency provided by C&H's Air Handlers are a great benefit to homeowners.

ELECTRIC HEATERS

OPTIONAL AUXILIARY HEATER

The Auxiliary Heater is an optional feature that can be purchased separately as a back-up heating option for indoor units in case of an emergency or when the primary heating system is not working.



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
Model	CH-NREH05KW	CH-NREH10KW	CH-NREH15KW	CH-NREH20KW
18K(AHU)	Y	Y	-	-
24K(AHU)	Y	Y	Y	-
30K(AHU)	Y	Y	Y	Y
36K(AHU)	Y	Y	Y	Y
48K(AHU)	-	Y	Y	Y
60K(AHU)	-	Y	Y	Y

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)	6 ton (72,000 BTU/h)
	Model	CH-RS18MAHU	CH-RS24MAHU	CH-RS30MAHU	CH-RS36LCAHU	CH-RS48LCAHU	CH-RS60LCAHU
	5KW	Y	Y	Y	Y	-	-
	10KW	Y	Y	Y	Y	Y	Y
	15KW	-	Y	Y	Y	Y	Y
	20KW	-	-	Y	Y	Y	Y

THREE HEATING MODES AVAILABLE FOR DIFFERENT APPLICATIONS



Heat Pump



Heater



Heat Pump + Heater



TECHNICAL SUPPORT
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Multi-Position Air Handler Unit SINGLE & MULTI-ZONE COMPATIBLE AIR CONDITIONER

Your actual 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 specifications or designs at any time without incurring obligations.

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