

CH

Cooper & Hunter

24V
COMMUNICATION



OMNI

Cooling Only



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Cooper&Hunter OMNI Series — Cooling-Only Side Discharge Split System

The Cooper&Hunter OMNI Series delivers high-performance cooling in a compact, side-discharge design engineered for modern residential installations. Built with advanced inverter technology, OMNI reduces energy consumption by up to 45% compared to traditional fixed-speed split systems, offering superior comfort and long-term savings.

Its smaller footprint and side-discharge configuration allow flexible installation, including wall-mounted bracket setups, making it ideal for projects with limited space or strict architectural requirements.

Featuring full 24V communication, OMNI is fully cross-compatible with third-party indoor units that support 24V controls and R454B refrigerant, giving contractors more freedom in system design and replacement scenarios.

With improved acoustic engineering, OMNI operates up to 25% quieter than conventional top-discharge split systems, ensuring a smoother, more comfortable cooling experience.

AVAILABLE: 18K, 24K, 30K, 36K, 48K, 60K Btu/h



24V COMMUNICATION MATCH-UP		INDOOR UNITS		
		A-COIL / M-COIL	24V Universal Multi-Position AHU	24V Universal Stud Mounted AHU Front return
OUTDOOR UNITS	Type			
CH-OMN18CL24V-230VO	Cooling Only Inverter	CH-ACL18-24A • CH-ACL18-24B	CH-MP18AHU24V	CH-STM18AHU24V
CH-OMN24CL24V-230VO	Cooling Only Inverter	CH-ACL18-24A • CH-ACL18-24B	CH-MP24AHU24V	CH-STM24AHU24V
CH-OMN30CL24V-230VO	Cooling Only Inverter	CH-ACL30-36B • CH-ACL30-36C	CH-MP30AHU24V	CH-STM30AHU24V
CH-OMN36CL24V-230VO	Cooling Only Inverter	CH-ACL30-36B • CH-ACL30-36C	CH-MP36AHU24V	CH-STM36AHU24V
CH-OMN48CL24V-230VO	Cooling Only Inverter	CH-MCL48-60C • CH-ACL48-60D	CH-MP48AHU24V	
CH-OMN60CL24V-230VO	Cooling Only Inverter	CH-MCL48-60C • CH-ACL48-60D	CH-MP60AHU24V	

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CONTROL OPTIONS:



C&H 24V or 120N Thermostats
Purchased Separately

24V MULTI-POSITION COOLING ONLY AIR HANDLER SYSTEM

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

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

CONSTANT AIR FLOW SYSTEM: UP TO 0.80 IN W.G.

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

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.

ALUMINUM COIL: Fewer corrosion points than copper coils.

REFRIGERANT LEAK DETECTION: Protects the compressor from damage due to refrigerant leaks by alerting with error code.

MULTIPLE CONTROLLER OPTIONS AVAILABLE: Cooper&Hunter wired controller with wifi capabilities using the C&H App, Compatible with most 24V wired thermostats.

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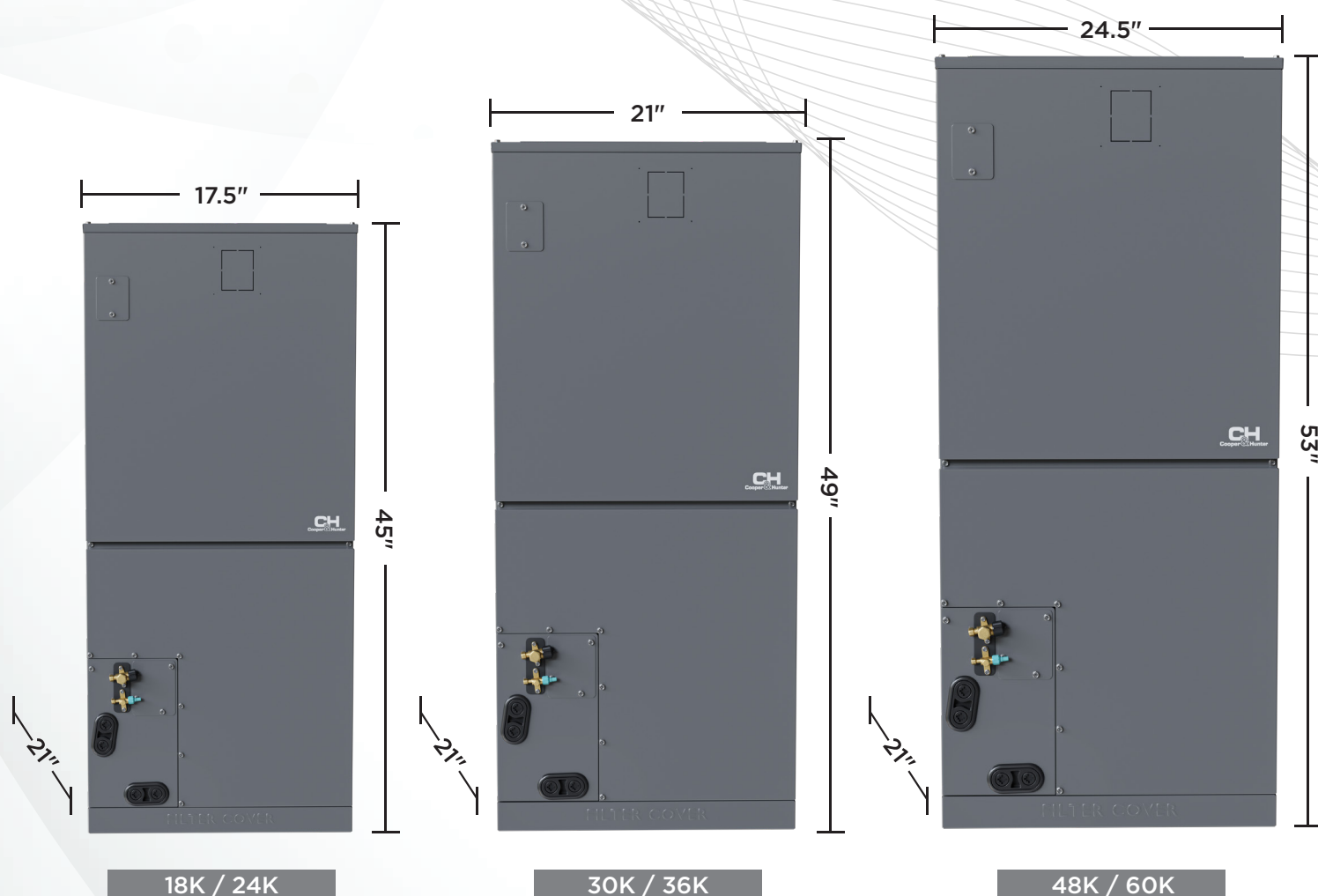
Indoor Stud Mounted AHU Model			CH-MP18AHU24V	CH-MP24AHU24V	CH-MP30AHU24V	CH-MP36AHU24V	CH-MP48AHU24V	CH-MP60AHU24V
Power Supply	Rated	V, Ph, Hz	115/208/230, 1, 60	115/208/230, 1, 60	115/208/230, 1, 60	115/208/230, 1, 60	115/208/230, 1, 60	115/208/230, 1, 60
Cooling	Rated Capacity	Btu/h	18,000	24,000	27,000	36,000	48,000	54,000
	Rated Current	A	6.94	10	11.4	14.5	21	24.4
Minimum Circuit Ampacity (MCA) 115V(208/230V)		A	5.5/4.0	5.5/4.0	5.5/4.0	8.0/6.0	8.0/6.0	9.0/7.0
Max. Fuse		A	15	15	15	15	15	15
Indoor Air Flow (Turbo/Hi/Mi/Lo)		CFM	618 / 574 / 530 / 486 / 486	824 / 759 / 694 / 630 / 630	989 / 896 / 803 / 710 / 710	1,189 / 1,083 / 971 / 865 / 865	1,601 / 1,398 / 1,194 / 991 / 594	1,730 / 1,501 / 1,271 / 1,042 / 1,042
Indoor Noise Level (Turbo/Hi/Mi/Lo)		dB(A)	44 / 42 / 40 / 37 / 37	49 / 46 / 44 / 40 / 40	53 / 47 / 44 / 39 / 39	49 / 46 / 42.5 / 41 / 41	52 / 52 / 48 / 44 / 44	58 / 55 / 50 / 44 / 44
External Static Pressure		in. WG	0.8	0.8	0.8	0.8	0.8	0.8
Indoor	Dimension (WxDxH)	inch	17.52 x 21.02 x 45.00	17.52 x 21.02 x 45.00	17.52 x 21.02 x 45.00	21.02 x 21.02 x 49.02	21.02 x 21.02 x 49.02	21.02 x 21.02 x 49.02
	Packing (WxDxH)	inch	26.57 x 20.87 x 48.62	26.57 x 20.87 x 48.62	26.57 x 20.87 x 48.62	26.57 x 24.41 x 52.56	26.57 x 24.41 x 52.56	26.57 x 24.41 x 52.56
	Net/Gross Weight	lbs.	105/127	105/127	109/130	125.88/150.79	133/158	133.16/156.97
Room Temperature	Cooling	°F	60 ~ 90	60 ~ 90	60 ~ 90	60 ~ 90	60 ~ 90	60 ~ 90
Liquid Side/Gas side		inch	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"

Outdoor OMNI Model (Cooling Only)			CH-OMNI18CL24V-230VO	CH-OMNI24CL24V-230VO	CH-OMNI30CL24V-230VO	CH-OMNI36CL24V-230VO	CH-OMNI48CL24V-230VO	CH-OMNI60CL24V-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
Cooling	Rated Current	A	187-253	187-253	187-253	187-253	187-253	187-253
	Capacity Min~Max	Btu/h	7,200 ~ 21,000	9,200 ~ 28,000	10,000 ~ 27,000	10,000 ~ 36,600	16,000 ~ 53,000	19,000 ~ 59,000
	EER2		11.5	10.5	9.8	10.8	10	9.8
	SEER2		18	17.2	16.5	17.2	16.2	15.9
Minimum Circuit Ampacity (MCA)		A	16	19	20	25	36	37
Max. Fuse		A	20	20	20	25	40	40
Outdoor Air Flow (Max.)		CFM	1,413	1,766	1,825	3,002	3037.1	4,503
Outdoor Noise Level		dB(A)	54	56	58	58	65	63
Outdoor Unit	Dimension (WxDxH)	inch	31.69 x 12.99 x 21.81	35.04 x 13.46 x 26.50	35.04 x 13.46 x 26.50	37.25 x 16.12 x 31.87	38.58 x 16.34 x 38.39	37.48 x 16.34 x 52.48
	Packing (WxDxH)	inch	36.02 x 14.57 x 24.21	39.17 x 15.67 x 29.13	39.17 x 15.67 x 29.13	42.87x 19.62 x 34.87	45.08 x 19.68 x 42.52	43.11 x 16.34 x 58.27
	Net/Gross Weight	lbs.	66.80/73.41	89.29/52.21	98.33/105.60	134.26/144.40	187.17/218.48	212.30/244.49
Refrigerant Type			R454B / 42.33	R454B / 74.08	R454B / 81.13	R454B /91.71	R454B / 141.10	R454B / 160.32
Refrigerant Precharge		oz	42,33	52.21	81.13	91.71	141.10	169.32
Additional Charge for each ft.		oz/ft	0.7	0.7	0.7	0.7	0.7	0.7
Design Pressure		PSIG	550 / 340	550 / 340	550 / 340	550 / 340	550 / 340	550 / 340
Refrigerant piping Liquid side/Gas Side		inch	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"
Max. Pipe Length		ft.	98	164	164	246	246	246
Max. Difference in Level		ft.	66	82	98	98	98.4	98.4
Ambient Temperature		ft.	-13 ~ 122	-13 ~ 122	-13 ~ 122	-13 ~ 122	-13 ~ 122	-13 ~ 122
Certifications	AHRI		✓	✓	✓	✓	✓	✓
	ETL		✓	✓	✓	✓	✓	✓
	Energy Star for Cold Climate							
	NEEP		✓	✓	✓	✓	✓	✓

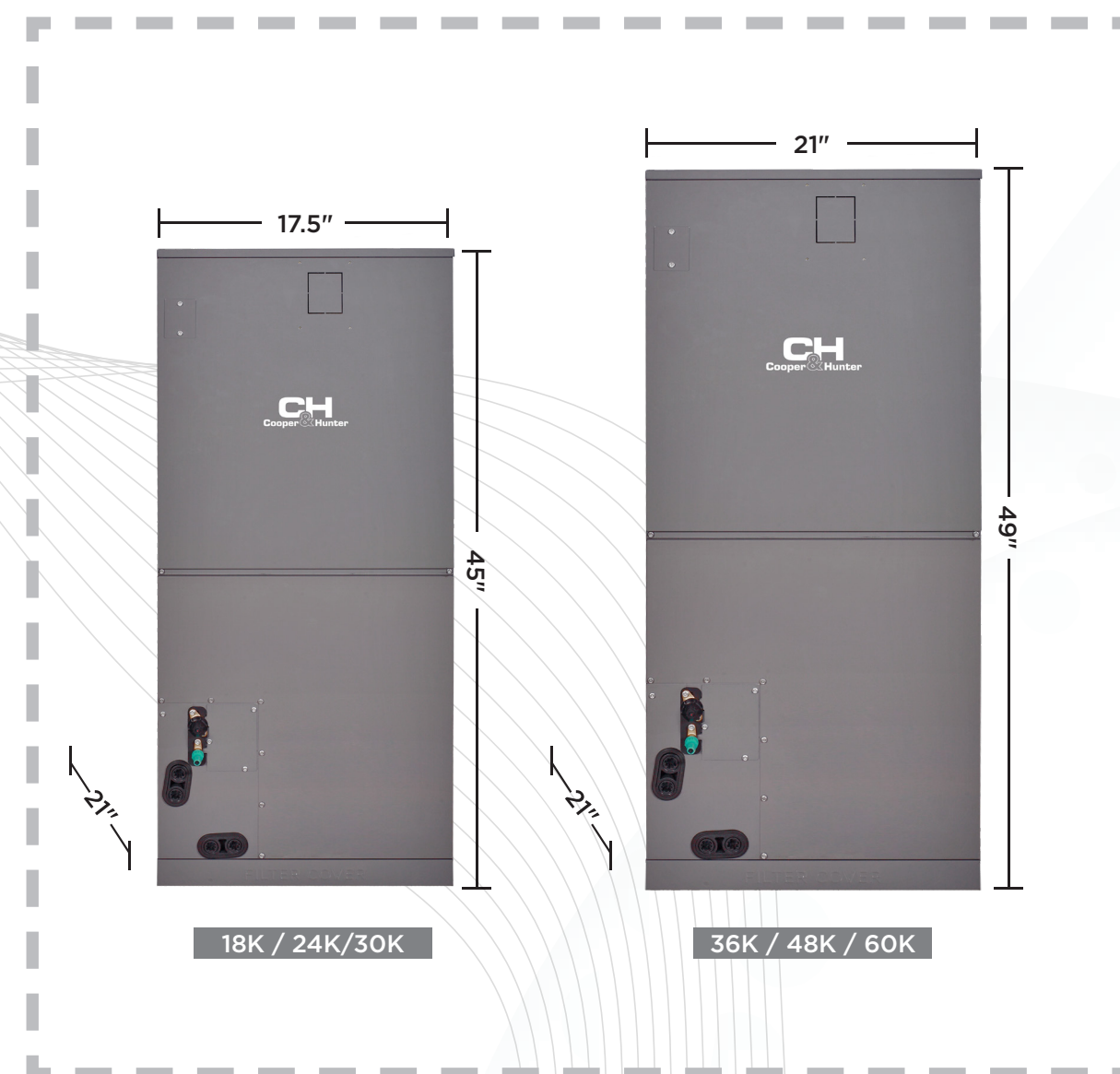
NEW SIZE AIR HANDLER



STANDARD INVERTER COOPER&HUNTER AIR HANDLER



NEW 24V COMMUNICATION COOPER&HUNTER INVERTER AIR HANDLER



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Refrigerant
Sensor

AUXILIARY HEATER	
3kW	CH-NRSMEH03KW
5kW	CH-NRSMEH05KW
8kW	CH-NRSMEH08KW
10kW	CH-NRSMEH10KW

CONTROL OPTIONS:



C&H 24V or 120N Thermostats
Purchased Separately

24V STUD MOUNTED COOLING ONLY

AHU SYSTEM

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

CONSTANT AIR FLOW SYSTEM: UP TO 0.80 IN W.G.

OPTIONAL AUXILIARY HEATER: Purchased separately as a backup heat option for indoor units, available in 3kW, 5kW, 8kW, and 10kW models.

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.

ALUMINUM COIL: Fewer corrosion points than copper coils.

MULTIPLE CONTROLLER OPTIONS AVAILABLE: Cooper&Hunter wired controller with wifi capabilities using the C&H App, Compatible with most 24V wired thermostats.

STUD MOUNT INDOOR			CH-STM18AHU24V	CH-STM24AHU24V	CH-STM30AHU24V	CH-STM36AHU24V
Power Supply	Rated	V, Ph, Hz	115/208/230, 1, 60	115/208/230, 1, 60	115/208/230, 1, 60	115/208/230, 1, 60
Cooling	Rated Capacity	Btu/h	18,000	24,000	30,000	34,000
	Rated Current	A	6.5	9.2	12.0	13.9
Minimum Circuit Ampacity (MCA)		A	4	4	6	6.5
Max. Fuse		A	15	15	15	15
Indoor Air Flow (Turbo/Hi/Mi/Lo)		CFM	618.0 / 576.8 / 529.7 / 488.5	824.0 / 759.3 / 694.5 / 629.8	988.8 / 894.7 / 806.4 / 712.2	1189.0 / 1083.0 / 971.2 / 865.2
Indoor Noise Level (Turbo/Hi/Mi/Lo)		dB(A)	48.0/47/45/39	53.0/51/48/37.5	50.5/50/48/36	-/50.5/48/36.5
External Static Pressure		in. WG	0.8	0.8	0.8	0.8
N.A. Design pressure		PSI	550 / 340	550 / 340	550 / 340	550 / 340
Indoor	Dimension (WxDxH)	inch	20.28 x 15.71 x 36.54	20.28 x 15.71 x 36.54	22.01 x 19.02 x 40.04	22.01 x 19.02 x 40.04
	Packing (WxDxH)	inch	22.83 x 19.49 x 42.91	22.83 x 19.49 x 42.91	24.61 x 22.83 x 46.97	24.61 x 22.83 x 46.97
	Net/Gross Weight	lbs.	111.33/91.49	91.49/111.33	110.23/131.39	109.57/130.73
Room Temperature	Cooling	°F	60~90	60~90	60~90	60~90
Liquid Side/Gas side		inch	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"

OMNI OUTDOOR			CH-OMN18CL24V-230VO	CH-OMN24CL24V-230VO	CH-OMN30CL24V-230VO	CH-OMN36CL24V-230VO
Power Supply	Rated	V, Ph, Hz	208-230, 1, 60	208-230, 1, 60	208-230, 1, 60	208-230, 1, 60
Cooling	Rated Current	A	6.5	9.2	12.0	13.9
	Capacity Min~Max	Btu/h	6600~20000	9100~28000	8900~30000	8600~35000
	EER2		12	11.3	10.9	11
	SEER2		19	17.9	17.4	17.7
Minimum Circuit Ampacity (MCA)		A	16	19	20	25
Max. Fuse		A	20	20	20	25
Outdoor Air Flow (Max.)		CFM	1,413	1,766	1,825	3,002
Outdoor Noise Level		dB(A)	54	56	58	58
Outdoor Unit	Dimension (WxDxH)	inch	31.69 x 12.99 x 21.81	35.04 x 13.46 x 26.50	35.04 x 13.46 x 26.50	37.24 x 16.14 x 31.89
	Packing (WxDxH)	inch	36.02 x 14.57 x 24.21	39.17 x 15.67 x 29.13	39.17 x 13.46 x 29.13	42.91 x 16.14 x 34.84
	Net/Gross Weight	lbs.	66.80/73.41	89.29/97.00	98.33/105.60	134.26/144.40
Refrigerant Type			R454B	R454B	R454B	R454B
Refrigerant Precharge		oz	65	52.21	81.13	91.71
Additional Charge for each ft.		oz/ft	0.7	0.7	0.7	0.7
Design Pressure		PSIG	550/340	550/340	550/340	550/340
Refrigerant piping Liquid side/Gas Side		inch	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"
Max. Pipe Length		ft.	98.4	164	164	246
Max. Difference in Level		ft.	66	82	98	98
Ambient Temperature	Cooling	ft.	-13~122	-13~122	-13~122	-13~122
Certifications	AHRI		✓	✓	✓	✓
	ETL		✓	✓	✓	✓
	Energy Star for Cold Climate					
	NEEP		✓	✓	✓	✓



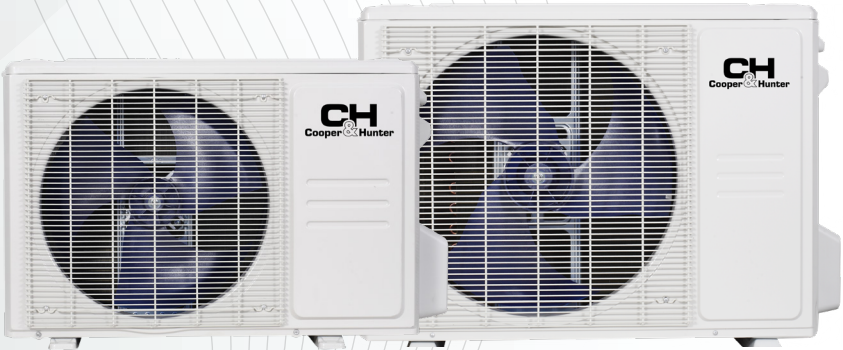
ENCASED A-COIL COOLING ONLY SYSTEM

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



INDOOR														
Indoor Model			CH-ACL18-24A	CH-ACL18-24B	CH-ACL18-24A	CH-ACL18-24B	CH-ACL30-36B	CH-ACL30-36C	CH-ACL30-36B	CH-ACL30-36C	CH-MCL48-60C	CH-ACL48-60D	CH-MCL48-60C	CH-ACL48-60D
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	208/230,1, 60	208/230,1, 60	208/230,1, 60
Communication		V	24	24	24	24	24	24	24	24	24	24	24	24
Rated Capacity	Cooling	Btu/h	18,000	18,000	23,000	23,000	29,000	29,000	34,000	34,000	44,000	47,000	52,000	54,000
Indoor	Dimension (WxDxH)	inch	14.5 x 21 x 18	17.5 x 21 x 18	14.5 x 21 x 18	17.5 x 21 x 18	17.5 x 21 x 23.5	21 x 21 x 24	17.5 x 21 x 23.5	21 x 21 x 24	21.62 x 21.5 x 27.75	24.5 x 21 x 28	21.62 x 21.5 x 27.75	24.5 x 21 x 28
	Packing (WxDxH)	inch	17.5 x 25.37 x 20.62	20.5x 26.12 x 20.87	17.5 x 25.37 x 20.62	20.5x 26.12 x 20.87	20.5 x 26.12 x 26.37	24.02 x 26.12 x 26.37	20.5 x 26.12 x 26.37	24.02 x 26.12 x 26.37	31.12 x 25 x 25.62	27.75x 26.12 x 30.37	31.12 x 25 x 25.62	27.75x 26.12 x 30.37
	Net/Gross Weight	lbs.	42 / 50	42 / 50	42 / 50	42 / 50	59.5 / 68	64 / 74	59.5 / 68	64 / 74	97 / 115	81 / 92	97 / 115	81 / 92
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	60~90
Liquid Side/Gas Side		inch	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"

OUTDOOR															
Outdoor Model				CH-OMNI18CL24V-230VO	CH-OMNI24CL24V-230VO	CH-OMNI30CL24V-230VO	CH-OMNI36CL24V-230VO	CH-OMNI48CL24V-230VO	CH-OMNI60CL24V-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						
	Voltage Range	V		187-253	187-253	187-253	187-253	187-253	187-253						
Cooling	Capacity Min~Max	Btu/h		5,100~21,100	7,600~28,700	8,200~31,000	8,800~35,800	17,600~52,000	13,600~50,000						
	Rated Current	A		5.9	8.0	12.3	14.5	16.4	18.7						
	EER2			11.2	10.6	10.2	10.2	9.8	9.0						
	SEER2			16.0	15.5	15.2	15.6	15.23	14.6						
Minimum Circuit Ampacity			A												
Max.Fuse (Outdoor Unit)			A												
Outdoor	Dimension (WxDxH)	inch		31.69 x 12.99 x 21.81	35.04 x 13.46 x 26.50	35.04 x 13.46 x 26.50	37.25 x 16.12 x 31.87	38.58 x 16.34 x 38.39	37.48 x 16.34 x 52.48						
	Packing (WxDxH)	inch		36.02 x 14.57 x 24.21	39.17 x 15.67 x 29.13	39.17 x 15.67 x 29.13	42.87x 19.62 x 34.87	45.08 x 19.68 x 42.52	43.11 x 16.34 x 58.27						
	Net/Gross Weight	lbs.		66.80/73.41	89.29/52.21	98.33/105.60	134.26/144.40	187.17/218.48	212.30/244.49						
Refrigerant Type / Charge			oz.	R454B / 42.33	R454B / 74.08	R454B / 81.13	R454B / 91.71	R454B / 141.10	R454B / 160.32						
Refrigerant Precharge Length			ft.	25	25	25	25	25	25						
Additional Charge for Each ft.			oz/ft	0.7	0.7	0.7	0.7	0.7	0.7						
Design Pressure			PSIG	550/340	550/340	550/340	550/340	550/340	550/340						
Refrigerant Piping Liquid Side/Gas Side			inch	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"						
Max. Pipe Length			ft.	98	164	164	246	246	246						
Max. Difference in Level			ft.	66	82	98	98	98	98						
Ambient Temperature	Cooling	°F		-13~122	-13~122	-13~122	-13~122	-13~122	-13~122						
	Certifications														
Certifications	ETL			✓	✓	✓	✓	✓	✓						
	AHRI			✓	✓	✓	✓	✓	✓						
	Energy Star for Cold Climate														
	NEEP														



FEATURES:

- 24V Communication
- Advanced Inverter Technology
- Up to 45% Energy Savings
- Cooling Only
- Side Discharge
- Compatible when paired with 3rd Party 24V Communication Units
- Standard pipeline sizes for easy unit replacement
- Up to 25% Quieter Performance
- Smaller Overall Footprint



Compatible with Cooper&Hunter's 24V Multi-Position Air Handler, Stud-Mounted Air Handler and A-Coil Units



cooperandhunter.us | TECHNICAL SUPPORT 1-888-293-9252

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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