



Multi-Position Air Handler Unit

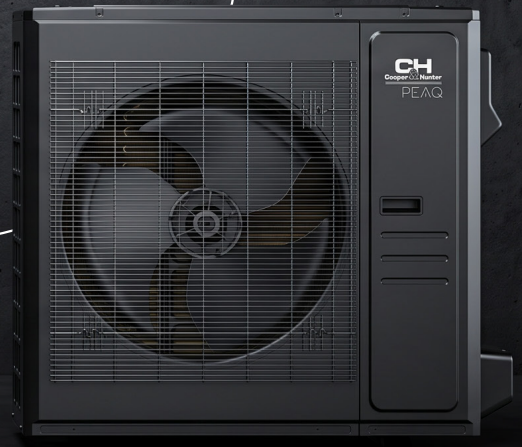
SINGLE-ZONE HIGH PERFORMANCE AIR CONDITIONER

UP TO 19.2 SEER2

Available only through official
Cooper&Hunter Distributors.



24V
COMMUNICATION



Cooper&Hunter PEAQ makes it easy
to replace your existing gas furnace systems,
old AHU or unitary systems.

Proud Sponsors



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



Same Width as Your Existing Gas Furnace



SEER2: Up to 19
EER2: Up to 12.5
HSPF2: Up to 10.8
COP: Up to 3.6
Static Pressure: 1.2

18K to 55K BTU
Single-Zone

Full range of options
to fit your lifestyle needs.



100% Heating
Output at 0° F

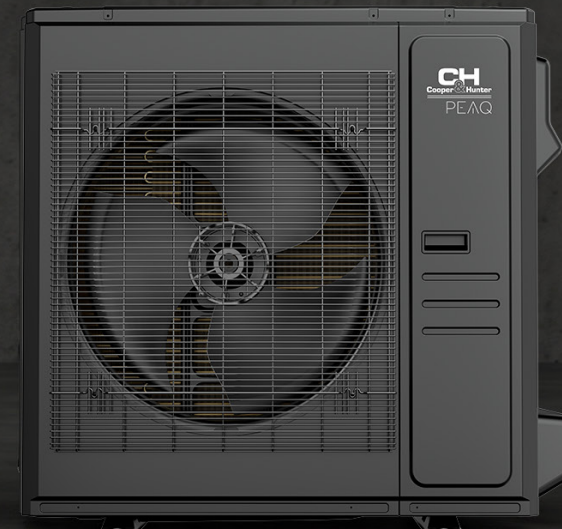
Extraordinary Cold Climate
Heating Performance

Adaptive Voltage
115V to 208/230V

Automatically identifying
the required voltage, no need
for manual conversion.

M-Coil Symmetric
Fan Blower

Optimized structure brings
even airflow and higher
efficiency heat exchange.



More Efficient Than
Your Old AHU Unit



The **Cooper&Hunter PEAQ** system is an innovative, high-performance inverter heat pump line featuring adaptive multi-voltage, matching furnace dimensions, and cold-climate heating.

Multi-Position Air Handler Unit

AHU 18K, 24K, 33K, 36K, 48K, 55K Btu/h

ADAPTIVE MULTI-VOLTAGE - 115V & 208-230V: All in one 115/208-230V Automatically identifying the required voltage without the need for manual conversion, eliminating the hassle of rewiring.

M-COIL: 2% Airflow difference between evaporators less than 0.02 in. W.C. pressure drop.

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.

SYMMETRIC FAN BLOWER DESIGN: Optimized structure brings even airflow and higher efficiency heat exchange.

SLIMMER INDOOR UNITS: The same width as most gas furnaces 14.5"-21.5" making the PEAQ unit an ideal replacement for your gas furnace.

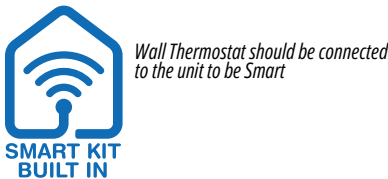
AUXILIARY HEATER: Purchased separately as a backup heat option for indoor units, available in 5kW, 10kW, 15kW, and 20kW models.

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

12V WIRED THERMOSTAT CONTROLLER INCLUDED: Also compatible with most third party 24V wired thermostats.

SMART KIT BUILT-IN: C&H's Smart Kit enables control from anywhere with C&H Remote app using any IOS or Android smart device.

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



Line Set Model 3/4"	Line Set Model 1/2"	Line Set Size
PJX-N1-C16FTW-MAX	PJX-N1-C16FTW-MAX-i05	1/4" – 3/8"
PJX-N1-C25FTW-MAX	PJX-N1-C25FTW-MAX-i05	1/4" – 3/8"
PJX-N1-C50FTW-MAX	PJX-N1-C50FTW-MAX-i05	1/4" – 3/8"
PJX-N2-C16FTW-MAX	PJX-N2-C16FTW-MAX-i05	1/4" – 1/2"
PJX-N2-C25FTW-MAX	PJX-N2-C25FTW-MAX-i05	1/4" – 1/2"
PJX-N2-C50FTW-MAX	PJX-N2-C50FTW-MAX-i05	1/4" – 1/2"
PJX-N3-C16FTW-MAX	PJX-N3-C16FTW-MAX-i05	3/8" – 5/8"
PJX-N3-C25FTW-MAX	PJX-N3-C25FTW-MAX-i05	3/8" – 5/8"
PJX-N3-C50FTW-MAX	PJX-N3-C50FTW-MAX-i05	3/8" – 5/8"
PJX-N4-C25FTW-MAX		3/8" – 3/4"
PJX-N4-C50FTW-MAX		3/8" – 3/4"
PJX-N6-C25FTW-MAX		3/8" – 7/8"
PJX-N6-C50FTW-MAX		3/8" – 7/8"

NEW INVERTER TECHNOLOGY: NEW Inverter Algorithm can analyze more factors, including temperature difference and the tendency of temperature difference changes, with a more frequent temperature detection to guarantee a more accurate and smooth control of the compressor output.

EXTRAORDINARY COLD CLIMATE HEATING PERFORMANCE: True high performance hyper units provide 100% heating output at 0°F.

GOLD FIN: Gold coating in the condenser withstands salty air, rain and other corrosive elements, preventing bacteria growth.



DRAIN PAN HEATER: Factory installed drain pan heater in outdoor unit prevents ice accumulation, improving heat transfer efficiency.

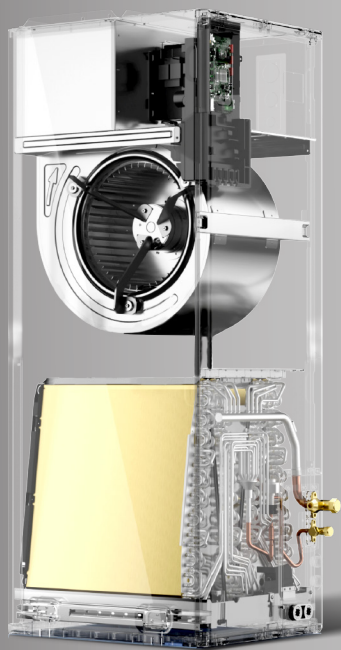
ULTRA EFFICIENT DISCHARGE FAN: The horizontal fan and vertical heat exchanger guarantee more uniform and efficient heat exchanging velocity across the entire heat exchanger surface, preventing frost on the compressor's coils.

DELAY FUSE: A detachable delay fuse added to the system protects the wire set from outdoor to indoor, preventing overcurrent.

HIGH PERFORMANCE HYPER										
INDOOR	Indoor Model			CH-PQ18AHU	CH-PQ24AHU	CH-PQ33AHU	CH-PQ36AHU	CH-PQ48AHU	CH-PQ55AHU	
	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	30,000	36,000	48,000	54,000	
		Rated Current	A	9.3	9.1	11.4	13.4	18	20.5	
	Heating	Rated Capacity	Btu/h	18,000	24,000	33,000	36,000	48,000	54,000	
		Rated Current	A	9.4	9.1	12.3	13.3	18.9	21.5	
	Minimum Circuit Ampacity (MCA)			A	5.5/3.5	5.5/3.5	8.0/6.05	8.0/6.0	14.5/10	14.5/10
	Max. Fuse			A	15	15	15	15	15	15
	Indoor Air Flow (TurboHi/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	1236.1/1147.8/1059.5/971.2	1601.0/1442.1/1265.5/1088.9	1801.1/1648.1/1500.9/1236.1
	Indoor Noise Level (TurboHi/Mi/Lo)			dB(A)	N/A/42.5/40.5/37	N/A/47.5/44/33	49/47/45.5/31.5	N/A/49.5/48/31.5	N/A/53.0/49.5/33.5	60.0/57.0/54.5/37.0
	External Static Pressure (ESP) Range			inWG	0-1.2	0-1.2	0-1.2	0-1.2	0-1.2	0-1.2
	Indoor	Dimension (WxDxH)	inch	14.49 x 21.50 x 49.72	14.49 x 21.50 x 49.72	17.52 x 21.50 x 53.98	17.52 x 21.50 x 53.98	21.50 x 21.50 x 55.94	21.50 x 21.50 x 55.94	
		Packing (WxDxH)	inch	52.95 x 17.52 x 31.10	52.95 x 17.52 x 31.10	57.09 x 20.47 x 31.10	57.09 x 20.47 x 31.10	59.84 x 25.00 x 31.10	59.84 x 25.00 x 31.10	
		Net/Gross Weight	lbs.	123.02/154.76	123.02/154.76	149.25/182.10	149.25/182.10	186.51/232.14	164 188.05/238.32	
	Room Temperature	Cooling	°F	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		
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"	

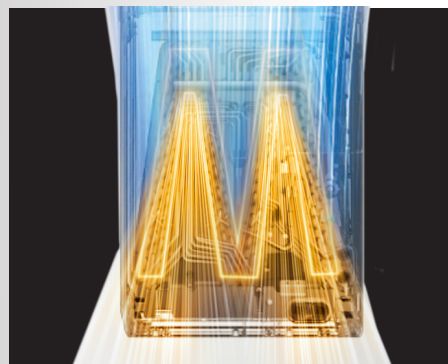
OUTDOOR	Outdoor Model			CH-PQ18-230VO	CH-PQ24-230VO	CH-PQ33-230VO	CH-PQ36X-230VO	CH-PQ48-230VO	CH-PQ55-230VO	
	Power Supply	Rated	V, Ph, Hz	208-230, 1, 60	208-230, 1, 60	208-230, 1, 60	208-230, 1, 60	208-230, 1, 60	208-230, 1, 60	
		Voltage range	V	187-253	187-253	187-253	187-253	187-253	187-253	
		Rated Current	A	10.5	14	18	18	28	31	
	Cooling	Capacity Min~Max	Btu/h	4600~23100	6400~28700	11200~40000	14800~41700	18000~52000	11400~60000	
		EER2		12.5	12	12	12	12	12	
		SEER2		19	18.6	17.2	17.7	17.5	17.5	
	Heating at 47°F	Capacity Min~Max	Btu/h	5700~23100	6700~29100	9700~35800	10700~38400	13500~52000	8600~60000	
		COP	W/W	3.6	3.49	3.54	3.6	3.28	3.35	
		HSPF4		10.1	10	10.8	10	9.5	9.5	
HSPF5			8.5	8.1	8.8	8	7.7	7.7		
Heating at 5°F (-15°C)	Rated Capacity	Btu/h	23600	25200	42500	39800	50000	54000		
Minimum Circuit Ampacity (MCA)			A	16	19	29.5	26	38	40	
Max. Fuse			A	20	20	30	30	40	40	
Outdoor Air Flow (Max.)			CFM	1,765.8	1765.8	3001.9	3001.9	3037.2	2648.7	
Outdoor Noise Level			dB(A)	56.5	59	62	62.5	65	64.5	
Outdoor Unit	Dimension (W×D×H)	inch	35.04 x 13.46 x 26.50	35.04 x 13.46 x 26.50	37.24 x 16.14 x 31.89	37.24 x 16.14 x 31.89	38.58 x 16.34 x 38.39	37.48 x 16.34 x 52.48		
Packing (W×D×H)		inch	39.17x15.67x29.13	39.17 x 15.67 x 29.13	42.91 x 19.68 x 34.84	42.91 x 19.68 x 34.84	45.08 x 19.68 x 42.52	43.11 x 19.49 x 58.27		
Net/Gross Weight		lbs.	101.41/109.13	102.29/109.13	166.67/176.37	166.67/176.37	232.59/201.50	242.95/275.13		
Refrigerant Type/Quantity		oz.	R454B/74.08	R454B/74.08	R454B/105.82	R454B/126.99	R454B/134.04	R454B/183.42		
Refrigerant Precharge		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.	164	164	164	213.2	246	246		
Max. Difference in Level		ft.	82	82	82	98.4	98.4	98.4		
Ambient Temperature	Cooling	ft.	-22~122	-22~122	-22~122	-22~122	-22~122	-22~122		
	Heating	°F	-22~75	-22~75	-22~75	-22~75	-22~75	-22~75		
Certifications			AHRI	✓	✓	✓	✓	✓	✓	
			ETL	✓	✓	✓	✓	✓	✓	✓
			Energy Star for Cold Climate	✓	✓	✓	✓	✓	✓	✓
			NEEP	✓	✓	✓	✓	✓	✓	✓

CH PEAQ Multi-Position AHU



MULTI-POSITION AIR HANDLER UNIT

The multi-position air handler can be installed vertically or horizontally to better fit any space. Air flow can be conducted in multiple directions for best adaptability. The Aluminum Coil is a feature that has fewer corrosion points than copper coils. This feature is designed to provide a more durable and long-lasting experience for users.

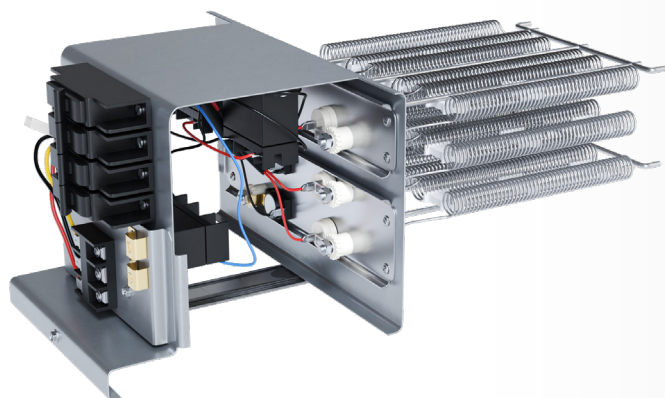


M-COIL

- High efficiency heat exchanger with 2% Airflow difference between evaporators and less than 0.02 in. W.C. Pressure Drop
- M-coils often have a more adaptable design that can be better suited to various air handler sizes and configurations
- Depending on the specific design, M-coils may take up less space within the air handler compared to A-coils, especially in tight spaces
- M-coil designs offer greater flexibility in how they can be positioned within the air handler, allowing for more customization

OPTIONAL AUXILIARY HEATER

The Auxiliary Heater is an optional feature that can be purchased separately as a back-up heating option for indoor unit 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
Model	CH-PQEH05KW	CH-PQEH10KW	CH-PQEH15KW	CH-PQEH20KW
18K(AHU)	Y	Y	-	-
24K(AHU)	Y	Y	Y	-
33K(AHU)	Y	Y	Y	Y
36K(AHU)	Y	Y	Y	Y
48K(AHU)	-	Y	Y	Y
55K(AHU)	-	Y	Y	Y

Electric Heater	Power (BTU/h)	1.5 ton (18,000)	2 ton (24,000)	3 ton (36,000)	4 ton (48,000)	5 ton (60,000)	6 ton (72,000)
	Model	CH-PQ18AHU	CH-PQ24AHU	CH-PQ36AHU	CH-PQ48AHU	CH-PQ60AHU	CH-PQ72AHU
	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

WATCH OUR
INFORMATIONAL
VIDEO

