

CH Cooper & Hunter

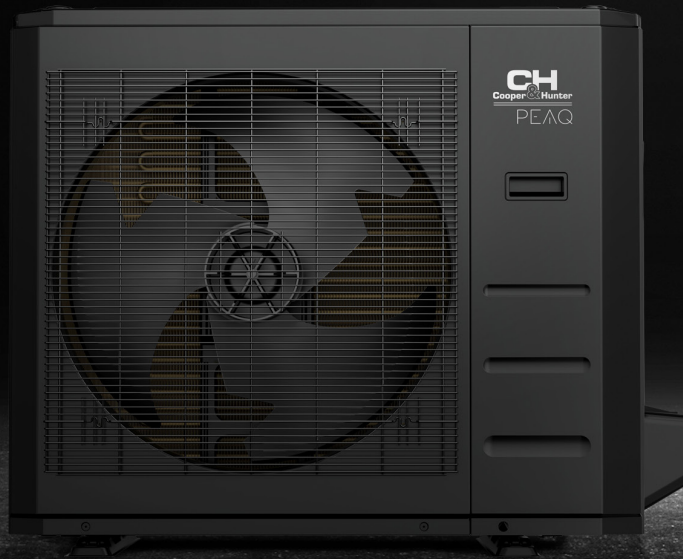
PEAQ

MULTI-POSITION AIR HANDLER UNIT

SINGLE-ZONE HIGH PERFORMANCE AIR CONTITIONER

UP TO 19 SEER2

LIMITED
WARRANTY
7 YEARS
COMPRESSOR
5 YEARS
PARTS



COOPER&HUNTER PEAQ MAKES IT EASY TO REPLACE YOUR EXISTING FURNACE, OLD AHU, OR UNITARY SYSTEMS.



TECHNICAL SUPPORT



cooperandhunter.us | TECHNICAL SUPPORT 786-953-6706





PEAQ

PEAQ

18K TO 55K BTU
SINGLE-ZONE

Full range of options to fit
your lifestyle needs.

ADAPTIVE VOLTAGE
115V TO 208/230V

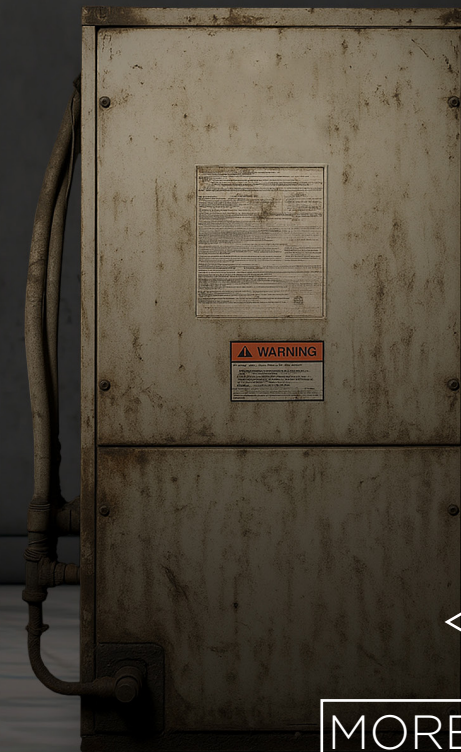
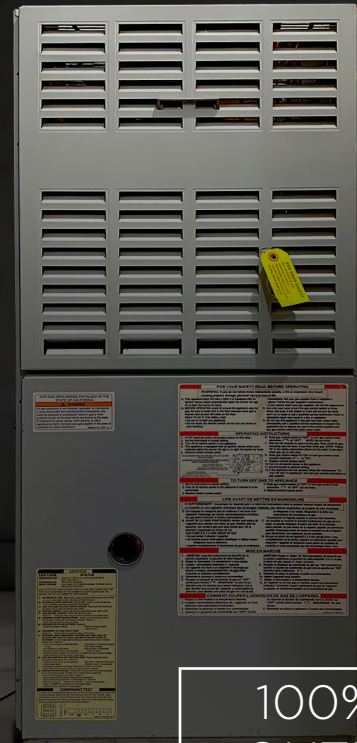
Automatically identifying the
required voltage, no need for
manual conversion.

SAME WIDTH AS YOUR
EXISTING GAS FURNACE

M-COIL
SYMMETRIC FAN BLOWER

Optimized structure brings
even airflow and higher
efficiency heat exchange.

SEER2: Up to 19
EER2: Up to 12.5
HSPF2: Up to 10.8
COP: Up to 3.6
STATIC PRESSURE: 1.2



100% HEATING
OUTPUT AT 0°F

Extraordinary Cold Climate
Heating Performance

MORE EFFICIENT THAN
YOUR OLD AHU UNIT

COOPER&HUNTER PEAQ MAKES IT EASY TO REPLACE YOUR EXISTING
GAS FURNACE, OLD AHU OR UNITARY SYSTEMS!

PEAQ

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"



Wall Thermostat should be connected to the unit to be Smart



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			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
	Rated Capacity	Btu/h	18,000	24,000	30,000	36,000	48,000	54,000
Cooling	Rated Current	A	9.3	9.1	11.4	13.4	18	20.5
	Rated Capacity	Btu/h	18,000	24,000	33,000	36,000	48,000	54,000
Heating	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			CH-PQ18-230VO	CH-PQ24-230VO	CH-PQ33-230VO	CH-PQ36-230VO	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
Cooling	Rated Current	A	10.5	14	18	18	28	31
	Rated Capacity Range	Btu/h	4600-23100	6400-28700	11200-40000	14800-41700	18000-52000	11400-60000
Heating at 47°F	EER2		12.5	12	12	12	12	12
	SEER2		19	18.6	17.2	17.7	17.5	17.5
	Rated Capacity Range	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
Heating at 5°F (-15°C)	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 (WxDxH)	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 (WxDxH)	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		✓	✓	✓	✓	✓	✓

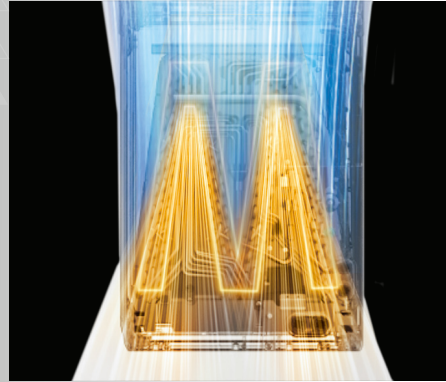
PEAQ MULTI-POSITION AHU



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.

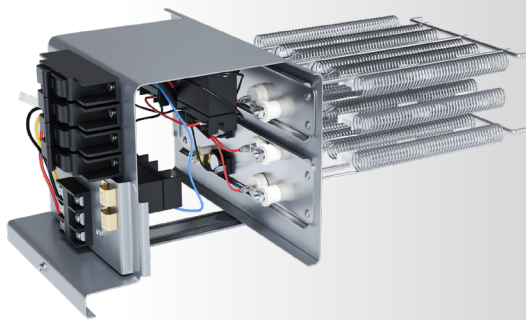
M-COIL



- 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 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-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 (30,000)	4 ton (36,000)	5 ton (48,000)	5 ton (54,000)
	Model	CH-PQ18AHU	CH-PQ24AHU	CH-PQ33AHU	CH-PQ36AHU	CH-PQ48AHU	CH-PQ55AHU
5KW	Y	Y	Y	Y	-	-	
10KW	Y	Y	Y	Y	Y	Y	
15KW	-	Y	Y	Y	Y	Y	
20KW	-	-	Y	Y	Y	Y	

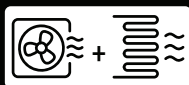
THREE HEATING MODES AVAILABLE FOR DIFFERENT APPLICATIONS



Heat Pump



Heater



Heat Pump + Heater

WATCH OUR INFORMATIONAL VIDEO

