

Single-Zone | Multi-Zone | Light Commercial

UP TO 22.7 SEER2



cooperandhunter.us | 786-953-6706

TECHNICAL SUPPORT



# Single-Zone/Multi-Zone/Residential/Commercial

(\*Smart Kit Built-In)



\*Panel sold separately, not included with Unit.

**UP TO 22.7 SEER2**  
9K, 12K, 18K, 24K, 36K, 48K Btu/h



- CONTROL OPTIONS**
- Smart Kit ready with Downloadable C&H Remote app
  - Remote Control included
  - C&H Wired Thermostat



Line Set Model 9mm	Line Set Model 13mm	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"

			LIGHT COMMERCIAL						LIGHT COMMERCIAL					
INDOOR			CH-09MSPHCT-230VI	CH-12MSPHCT-230VI	CH-18MCT-W*	CH-24MCT-W*	CH-36LCCT-W*	CH-48LCCT-W*	CH-09MSPHCT-230VI	CH-12MSPHCT-230VI	CH-18MCT-W*	CH-24MCT-W*	CH-N36LCCT-230VI	CH-N48LCCT-230VI
Panel Model Number			CH-PNL09-18MSPHCT	CH-PNL09-18MSPHCT	CH-PNL09-18MSPHCT	CH-NPNL24-48MSPHCT	CH-NPNL24-48MSPHCT	CH-NPNL24-48MSPHCT	CH-PNL09-18MSPHCT	CH-PNL09-18MSPHCT	CH-PNL09-18MSPHCT	CH-NPNL24-48MSPHCT	CH-NPNL24-48MSPHCT	CH-NPNL24-48MSPHCT
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
	Rated Capacity	Cooling	Btu/h	9,000	12,000	16,000	24,000	36,000	48,000	9,000	12,000	16,000	24,000	36,000
Heating		Btu/h	9,800	12,000	17,000	25,000	40,000	53,000	10,000	12,000	19,000	25,000	38,000	50,000
Minimum Circuit Ampacity (MCA)		A	1.2	1.3	1.9	2.5	2.5	2.5	1.2	1.3	1.9	2.5	2.5	2.5
Max. Fuse		A	15	15	15	15	15	15	15	15	15	15	15	15
Indoor Air Flow (Turbo/Hi/MI/Lo)		CFM	389/353/306/271	371/335/282/241	600/562/485/439	765/706/635/547	1,041/947/853/753	1,288/1,171/1,059/935	389/353/306/271	371/335/282/241	600/562/485/439	765/706/635/547	1,041/947/853/753	1,288/1,171/1,059/935
Indoor Noise Level (Hi/MI/Lo)		dB(A)	39.5/36/32.5	40.5/35.5/31.5	43.5/38.5/35.5	48/45.5/43	52.5/50/46.5	55.5/52.5/50	37.5/34.5/31.5	40/36/32.5	46/41.5/39.5	49/46/43	52.5/50/46.5	55/53/50
Indoor	Dimension (WxDxH)	inch	22.44x22.44x10.24	22.44x22.44x10.24	22.44x22.44x10.24	32.68x32.68x8.07	32.68x32.68x9.65	32.68x32.68x11.30	22.44x22.44x10.24	22.44x22.44x10.24	22.44x22.44x10.24	32.68x32.68x8.07	32.68x32.68x9.65	32.68x32.68x11.30
	Packing (WxDxH)	inch	26.06x26.06x12.48	26.06x26.06x12.48	26.06x26.06x12.48	35.83x35.83x9.84	35.83x35.83x11.42	35.83x35.83x12.99	26.06x26.06x12.48	26.06x26.06x12.48	26.06x26.06x12.48	35.83x35.83x9.84	35.83x35.83x11.42	35.83x35.83x12.99
	Net/Gross Weight	lbs.	31.97/38.14	35.27/41.01	35.71/46.96	47.18/55.34	59.97/69.00	64.59/74.07	31.97/38.14	35.27/41.01	35.71/46.96	47.18/55.34	59.97/69.00	64.59/74.07
Room Temperature	Cooling	°F	62-90	62-90	62-90	60-90	60-90	60-90	62-90	62-90	62-90	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	32-86
Liquid Side/Gas Side		inch	1/4"/3/8"	1/4"/1/2"	1/4"/1/2"	3/8"/5/8"	3/8"/5/8"	3/8"/5/8"	1/4"/3/8"	1/4"/1/2"	1/4"/1/2"	3/8"/5/8"	3/8"/5/8"	3/8"/5/8"

			HYPER						LIGHT COMMERCIAL				REGULAR				LIGHT COMMERCIAL			
OUTDOOR			CH-HPR09-230VO	CH-HPR12-230VO	CH-HPR18-230VO	CH-HPR24-230VO	CH-NHPR36LCU-230VO	CH-NHPR48LCU-230VO	CH-ES09-230VO	CH-ES12-230VO	CH-ES18-230VO	CH-ES24-230VO	CH-N36LCU-230VO	CH-N48LCU-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	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	187-253	187-253	187-253						
Cooling	Rated Capacity Range	Btu/h	2,850-11,100	3,000-13,700	5,600-17,000	5,600-17,000	12,400-36,000	2,700-48,900	2,970-10,500	2,800-14,100	5,600-16,000	8,100-26,200	12,400-36,000	16,600-48,000						
	Rated Current	A	3.17	4.32	8	8.5	17.6	25.24	3.17	3.92	6.01	8.78	17.39	23.1						
	EER2	Btu/h	13	12.7	12.5	11	9.5	8.3	13	14	12.5	12.5	9.4	9.5						
	SEER2	Btu/h	20.5	22.3	20	20.5	19.4	16.8	20	22.7	20.5	21.5	19.2	18.5						
	Rated Capacity Range	Btu/h	2,270-12,500	2,000-15,300	8,700-21,000	11,800-27,000	11,200-50,000	11,800-58,000	2,230-11,650	2,000-14,600	7,700-19,000	10,600-30,000	11,200-38,000	11,850-52,000						
Heating at 47°F	Rated current	A	4.58	4.99	10.8	9.8	17.1	21.92	4.16	4.78	8.21	10	15.55	21.5						
	COP	W/W	3.09	3.26	2.95	3.5	3.05	3.17	3.08	3.37	2.78	3.32	3.18	3.1						
	HSPF4		10.3	10.2	10.5	9.7	10.5	10.7	10	10	10.5	9.7	8.8	9.8						
HSPF5		7.8	8.8	7.8	9.2	8.5	8.5	8.2	7.8	8	7.8	7	7.5							
Minimum Circuit Ampacity		A	15	15	20	25	40	40	13	13	19	23	30	39						
Max.Fuse (Outdoor Unit)		A	15	15	25	35	50	50	15	15	30	30	45	50						
Outdoor Air Flow (Max.)		CFM	1,324	1,324	1,765	2,235	4,500	4,500	1,294	1,294	2,059	2,235	3,000	4,500						
Outdoor Noise Level (Sound Pressure)		dB(A)	55	53	59	62	64	67	53	54	60.5	61	63.5	65						
Dimension (WxDxH)		inch	31.69x12.99x21.81	31.69x12.99x21.81	35.04x13.46x26.50	37.24x16.14x31.89	37.48x16.34x52.48	37.48x16.34x52.48	30.12x11.93x21.85	30.12x11.93x21.85	35.04x13.46x26.50	37.24x16.14x31.89	37.24x16.14x31.89	37.48x16.34x52.48						
Packing (WxDxH)		inch	36.02x14.57x24.21	36.02x14.57x24.21	39.17x15.67x29.13	42.91x19.69x34.84	43.11x19.49x58.27	43.11x19.49x58.27	34.92x13.27x24.02	34.92x13.27x24.02	39.17x15.67x29.13	42.91x19.69x34.84	42.91x19.69x34.84	43.11x19.49x58.27						
Net/Gross Weight		lbs.	74.07/80.25	73.63/79.37	100.97/108.03	134.48/144.40	220.24/248.02	227.07/255.73	63.71/69.00	63.71/69.00	94.36/100.97	124.78/134.92	155.42/166.23	219.14/249.12						
Refrigerant Type / Charge		oz.	R410A / 41.62	R410A / 41.62	R410A / 65.26	R410A / 91.71	R410A / 148.4	R410A / 148	R410A / 38	R410A / 38	R410A / 56.44	R410A / 82.89	R410A / 112.9	R410A / 158.7						
Refrigerant Precharge Length		ft.	25	25	25	25	25	25	25	25	25	25	25							
Additional Charge for Each ft.		oz/ft	0.16	0.16	0.16	0.32	0.32	0.32	0.16	0.16	0.16	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"/3/8"	1/4"/1/2"	1/4"/1/2"	3/8"/5/8"	3/8"/5/8"	3/8"/5/8"	1/4"/3/8"	1/4"/1/2"	1/4"/1/2"	3/8"/5/8"	3/8"/5/8"							
Max. Pipe Length		ft.	82.02	82.02	98.42	164.04	213.25	213.25	82.02	82.02	98.42	164.04	213.25							
Max. Difference in Level		ft.	32.81	32.81	65.62	82.02	98.42	98.42	32.81	32.81	65.62	82.02	98.42							
Ambient Temperature	Cooling	°F	-22-122	-22-122	-22-122	-22-122	5-122	5-122	-13-122	-13-122	-13-122	-13-122	5-122	5-122						
	Heating	°F	-22-75	-22-75	-22-75	-22-75	-22-75	-22-75	-13-75	-13-75	-13-75	-13-75	5-75	5-75						
Certifications	UL		✓	✓	✓	✓			✓	✓	✓	✓								
	ETL		✓	✓	✓				✓	✓	✓									
	AHRI		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						
	Energy Star		✓	✓	✓	✓			✓	✓	✓	✓	✓	✓						
	NEEP		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						
	CSA						✓	✓					✓	✓						





# CONNECTIVITY FOR MULTI COMBINATIONS



- Inverter technology to lower operating costs
- Turbo Mode for fast heating and cooling
- Sleep Mode for comfortable sleeping
- Auto Cleaning

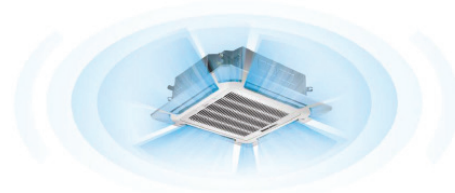
- Auto Reset for power interruptions
- 24 hour timer with last-setting memory
- Horizontal auto swing louvers
- Smart Kit ready with optional remote

## GENERAL FEATURES

- Activated Carbon Filter
- GoldFin Anti-Corrosive Coating
- Anti Cold Air
- Omni-Directional Airflow
- Sleep Mode
- Turbo Operation
- Multiple Fan Speeds
- Refrigerant Leakage Detection
- Self Diagnosis Function
- Fresh Air Intake

## 360° AIR FLOW PANEL

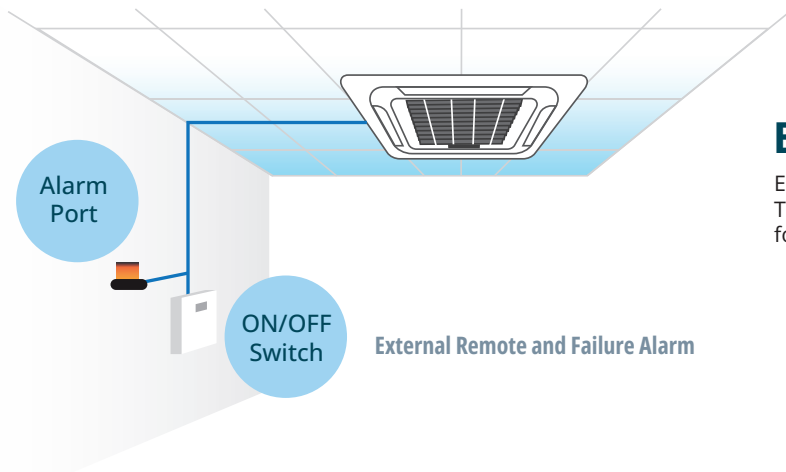
With a 360° Air Flow Panel, air is evenly distributed to every corner of the room.



## RESERVED ON/OFF AND ALARM PORTS

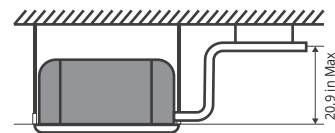
**ON/OFF Switch:** With the reserved ports, a remote switch can easily be connected.

**Alarm Port:** The built-in PCB can output an alarm signal which allows set up of external alarm light or vibration gauge.



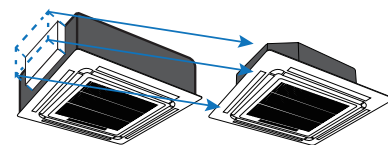
## BUILT-IN DRAIN PUMP

Built-in pump with float switch removes the condensate water out of the unit efficiently and automatically with a 20.9-inch lift capability and quiet performance.



## E-BOX INSIDE

Easy maintenance with the electric box inside the unit. The integrated design provides a more compact size for easier installation.



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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