



United Technologies

AIR CONDITIONING SOLUTIONS

High Wall Unit 42KHCT-N & 42KHET-N



With non-ozone depleting refrigerant (R-410A)



optimax Pro

A **unique** collection of advantages

Carrier's advanced remote control represents the highest degree of comfort management with complete control and protection functions built in the electronic system to ensure comfort, safety and reliability.



Plasma Green technology (Only for Systems 1 - 1.5 - 2 TR)

Plasma Green air purifier generates an electrostatic field. The air passing through this zone is converted to plasma, and 95% of the dust, smoke and pollen particles are attracted to an electronegative filter for clean and healthy air.



Ionizer technology (Only for systems 2.5 - 3 TR)

Ionizer generates large quantity of negative ions for refreshing air, killing germs, removing smoke and dust particles. Ionizer gives an immediate sensation of energy and well-being.



Efficient active filter

Active carbon - electrostatic air filter is used to remove odors and microscopic dust removal.



Smart airflow

The smart airflow function allows for optimum uniform distribution of supply air across the entire room to be air conditioned.



Turbo function for faster cooling

Turbo function automatically changes the fan speed to maximum speed to maximize the cooling capacity and to make the room cool down rapidly.



Follow me function for smart comfort control

Smart Follow me function controls comfortable temperature when you stay close to the remote control. With this technology, an efficient temperature sensor is built in the remote control to sense your location and to make it feel like the air conditioner is following you.

High Efficiency performance

Carrier's range of condensing units guarantee continuous exceptional performance in extreme ambient conditions



Sleep mode for comfortable & healthy sleep

The air conditioner will automatically decrease the fan speed to low speed and also will increase or decrease the setting temperature (as per the selected mode cool or heat) by 1°C per hour for the first two hours, then hold it steady for the next 5 hours after which it will switch off. This function maintains healthy sleep with both energy savings and comfort in the night.



Timer functions

Programmable timer functions allow for easy on and off selection with energy savings.



Optimal smart WiFi kit (Only for Systems 1 - 1.5 - 2 TR)

Carrier has introduced an Android app or IOS App, which can be used to control the operation of your air conditioner remotely via an app called "Net Home Plus". through your smart mobile phone.



Can be connected with BMS (Only for systems 1 - 1.5 - 2 TR)

The air conditioner can be connected to Building Management System (BMS) by using optional display panel with X Y E ports connections for BMS



Auto restart function

If the air conditioner shuts down unexpectedly due to a power cut, it will restart automatically with backup memory to operate with the previous settings when the power returns.



Anti-freezing protection

Anti-freezing protection of evaporator coil when the air conditioner is operating in cool mode with excessive dust on the coil and / or clogged air filters and / or low ambient temperature operation of cool mode.



Self diagnostic function

This function for malfunction detection can automatically stop system operation in case of a malfunction and can show error code on the display of indoor unit for easy service and maintenance.



Refrigerant leak detection

Smart self-diagnostic, safety protection function which can automatically stop system operation in case of refrigerant leak and can show error code for refrigerant leak on the display of indoor unit for easy service and maintenance.

Technical specifications

Indoor Unit	Cool Only	Model	42KHCT12N-708J	42KHCT18N-708J	42KHCT24N-708J	42KHET30N-708F	42KHET36N-708F
Outdoor Unit	Cool Only	Model	38KHCT12N-708	38KHCT18N-708	38KHCT24N-708	38KHET30N-708	38KHET36N-708
System Size		TR	1.0	1.5	2.0	2.5	3.0
Capacity at T1	Cooling	BTU/h	12400	18900	25400	28300	35300
		Watts	3634	5539	7444	8294	10346
Capacity at T3		BTU/h	9850	16650	21450	24545	28200
		Watts	2887	4880	6287	7194	8265
Total System Power Input (OU + IU) at T1		Watts	1050	1629	2191	2282	2905
Total System Power Input (OU + IU) at T3		Watts	1270	1952	2645	2795	3630
EER at T1		Btu/W-h	11.81	11.60	11.60	12.40	12.15
EER at T3		Btu/W-h	7.76	8.53	8.11	8.78	7.77
Indoor Unit Specifications			42KHCT12N-708J	42KHCT18N-708J	42KHCT24N-708J	42KHET30N-708F	42KHET36N-708F
Power Supply	V-Ph-Hz	220/240-1-50					
Air Filter Type		Plasma Green Technology + Anti-dust Air Filters + Active Carbon Electrostatic Air Filter				Ionizer Technology + Anti-dust Air Filters + Active Carbon Electrostatic Air Filter	
Air Flow Rate (High/ Medium/ Low Speed)	cfm	315 / 250 / 215	450 / 375 / 295	660 / 550 / 470	796 / 661 / 531	912 / 733 / 619	
Indoor Sound Pressure (High/ Medium/ Low) ⁽³⁾	dBA	42 / 36 / 31	43 / 37 / 33	50 / 44 / 39	53 / 50 / 45	54 / 51 / 47	
Indoor Sound Pressure (High/ Medium/ Low) ⁽⁴⁾	dBA	47 / 41 / 38	50 / 45 / 42	53 / 47 / 44	56 / 53 / 48	57 / 53 / 49	
Dimensions (W x H x D)	mm	812x300x192	973x319x218	1082x338x225	1250x350x280	1450x340x265	
Net Weight	Kg	9	12	15	19.5	27	
Outdoor Unit Specifications			38KHCT12N-708	38KHCT18N-708	38KHCT24N-708	38KHET30N-708	38KHET36N-708
Power Supply	V-Ph-Hz	220/240-1-50					
Compressor Type		Rotary Tropical				Scroll Tropical	
Refrigerant		R410A					
Outdoor Sound Pressure ⁽³⁾	dBA	59	61	63	63	63	
Outdoor Sound Pressure ⁽⁴⁾	dBA	60.7	63.4	65.4	65.4	65.4	
Dimensions (W x H x D)	mm	770 x 550 x 290	845 x 700 x 330	945 x 810 x 400	945 x 810 x 400	945 x 810 x 400	
Net Weight	Kg.	39	50	65	65	67	
Max Outdoor Air Temperature Operation	°C	52					
Pipe Connection Size	Liquid	inch	1/4"	1/4"	3/8"	3/8"	3/8"
	Suction	inch	1/2"	1/2"	5/8"	3/4"	3/4"
	Drain	inch	5/8"	5/8"	5/8"	5/8"	5/8"
Refrigerant Pipe (Max Length)	Vertical + Horizontal	mts	10	25	25	30	30
	Vertical (OU & IU)	mts	5	10	10	15	15
Recommended Wire Size/No. of Wires for Power Supply to Outdoor Unit *	mm ² / (qty)		3 mm ² / (2 + 1 Earth)	4 mm ² / (2 + 1 Earth)	4 mm ² / (2 + 1 Earth)	6 mm ² / (2 + 1 Earth)	6 mm ² / (2 + 1 Earth)
Recommended Wire Size/No. of Wires for Control from Indoor Unit to Outdoor Unit *			1 mm ² / (3 + 1 Earth)	1 mm ² / (3 + 1 Earth)	1 mm ² / (3 + 1 Earth)	1 mm ² / (3 + 1 Earth)	1 mm ² / (3 + 1 Earth)

1. T1 conditions: Indoor Air Temperatures 27°C (DB) / 19°C (WB) and Outdoor Air Temperatures 35°C (DB) / 24°C (WB)

2. T3 conditions: Indoor Air Temperatures 29°C (DB) / 19°C (WB) and Outdoor Air Temperatures 46°C (DB) / 24°C (WB)

3. Sound Pressure is measured in anechoic sound testing lab as per ISO 3745 standard

4. Sound Pressure is measured in reverberation sound testing lab as per ISO 3741 standard

* Recommended wire sizes are for reference & guidance only, all field wires should comply with National and International Electrical Codes

Carrier reserves the right to change features and/ or specifications without notice and without incurring any liability