Technical Specifications

Indoor Unit		Unit	COOL ONLY								
			42KDMT12N-718	42KDMT18N-718	42KDMT24N-718	42KDMT30N-718	42KDMT36N-718T	42KDHT42N-518T	42KDHT48N-518T	42KDHT60N-518T	42KDHT72N-518T
Unit Size		TR	1.0	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0
Rating Capacity at T1	Cooling	BTU/h	13,400	18,600	25,000	35,700	36,700	41,300	48,350	58,920	71,500
		KW	3.9	5.5	7.3	10.5	10.8	12.1	14.2	17.3	20.9
Rating Capacity at T3	Cooling	BTU/h	11,600	16,000	22,000	31,400	33,500	35,800	45,000	51,325	62,000
		Watts	3.4	4.7	6.5	9.2	9.8	10.5	13.2	15.0	18.2
Power Supply		V-Ph-Hz	220/240-1-50								
Total System Power Input at T1	Cooling	Watts	1,105	1,475	1,977	3,075	3,080	3,217	4,065	4,993	5,840
Total System Power Input at T3		Watts	1,285	1,771	2,387	3,662	3,876	4,020	4,879	5,913	7,209
EER at T1		Btu/W-h	12.13	12.61	12.64	11.61	11.91	12.84	11.89	11.80	12.24
EER at T3		Btu/W-h	9.03	9.03	9.22	8.57	8.64	8.90	9.22	8.68	8.60
COP at T1		W/W	3.56	3.69	3.71	3.40	3.49	3.76	3.49	3.46	3.59
Total System Current at T1 / T3		A	4.7 / 5.6	6.6 / 7.9	9.0 / 10.8	14.9 / 17.1	13.8 / 17.2	5.4 / 6.5	7.5 / 8.3	8.5 / 9.9	12.2 / 8.6
Air Filter Type		Type	Anti-dust Aluminum Air Filter								
Air Flow Rate (High/ Medium/ Low Speed)		cfm	452/361/280 @ 25pa ESP	569/519/416 @ 25pa ESP	811/711/618 @ 25pa ESP	1169/1033/908 @ 37pa ESP	1169/1033/908 @ 37pa ESP	1376/1140/980 @ 50pa ESP	1737/1441/1270 @ 50pa ESP	1750/1507/1153 @ 50pa ESP	2355/1955/1865 @ 62pa ESP
Sound Pressure (High/ Medium/ Low Speed)		dB(A)	37 / 35 / 33 @ 25pa ESP	40 / 38 / 36 @ 25pa ESP	46 / 42 / 38 @ 25pa ESP	43 / 42 / 40 @ 37pa ESP	44 / 42 / 41 @ 37pa ESP	44 / 42 / 40 @ 50pa ESP	53 / 50 / 48 @ 50pa ESP	54 / 51 / 45 @ 50pa ESP	55 / 52 / 48 @ 62pa ESP
Net Weight		Kg	23	28	28	44.5	44.5	56	56	56	83
Net Dimensions (W x D x H)		mm	920x635x210	920x635x270		1200x865x300		1200x625x380			1470x795x510
Pipe Connection Size	Liquid	inch	1/4	1/4	3/8	3/8	3/8	3/8	3/8	3/8	1/2
	Suction	inch	1/2	1/2	5/8	3/4	3/4	7/8	7/8	7/8	7/8
	Drain	mm	25	25	25	25	25	25	25	25	41

Outdoor Unit		Unit	COOL ONLY								
			38KDMT12N-718	38KDMT18N-718	38KDMT24N-718	38KDMT30N-718	38KDMT36N-718T	38KDHT42N-518T	38KDHT48N-518T	38KDHT60N-518T	38KDHT72N-518T
Power Supply		V-Ph-Hz	220/240-1-50					380/415-3-50			
Air Discharge		Type	Side				Top				
Compressor		Type	Rotary Tropical				Scroll Tropical				
Refrigerant		Type	R410A								
Refrigerant Pipe (Max length)	Vertical + Horizontal	mts	15	20	25	25	25	30	30	35	40
	Vertical (OU & IU)	mts	6	10	10	15	15	15	15	15	15
Recommended Wire Size/No. of Wires for Power Supply to CDU **		mm² / qty	4 mm² / (2 + 1 Earth)			6 mm² / (2 + 1 Earth)		4 mm² / (4 + 1 Earth)			
Recommended Wire Size/No. of Wires for Power Supply to FCU			---			1 mm² / (2 + 1 Earth)		1 mm² / (2 + 1 Earth)			
Recommended Wire Size/No. of Wires for Control from FCU to CDU			1 mm² / (3 + 1 Earth)			0.2 mm² / (3 + 1 Earth)					
Dimensions (W x D x H)		mm	770x 300 x 555	845 x 320 x 700	945 x 395 x 810		710 x 710 x 843			740x 740 x 843	
Net Weight		Kg.	37	48.5	60	70.5	84.5	80	80	102	102
Max Outdoor Air Temperature Operation		°C	52								

1. T1 conditions: Indoor Air Temperatures 27°C (DB) / 19°C (WB) and Outdoor Air Temperatures 35°C (DB) / 24°C (WB), in compliance with UAE.S 5010: 2014 & UAE.S ISO 13253:2011
2. T3 conditions: Indoor Air Temperatures 29°C (DB) / 19°C (WB) and Outdoor Air Temperatures 46°C (DB) / 24°C (WB), in compliance with UAE.S 5010: 2014 & UAE.S ISO 13253:2011
*** 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

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AIR CONDITIONING SOLUTIONS

Ducted Split Systems
42KDMT-N/42KDHT-N

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

Emirates Quality Mark

Puron the environmentally sound refrigerant

ClassiCOOL

Carrier delivers efficient, dependable performance, inside and out.

With Carrier ducted systems, a wide range of condensing units work seamlessly with an innovative evaporator unit to create reliable solutions that are easy-to-install, and service, for a wide range of residential HVAC needs.

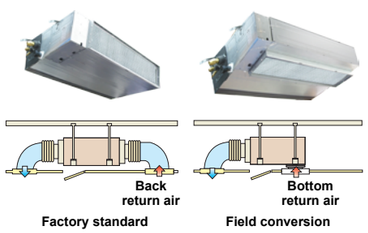
High efficiency performance

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

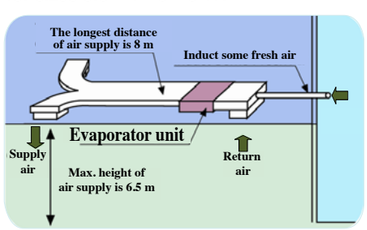
Easy installation and service

Slim, low height, compact ducted evaporator unit

Flexible two directions of return air for sizes 1 – 1.5 – 2 – 2.5 – 3 TR



High static pressure design for sizes 3.5 – 4 – 5 – 6 TR



Tropical compressor

The compressor works in high ambient temperature up to 52°C with high efficiency and low electrical consumption leading to true powerful system cooling.
The internal thermal protector of the compressor protects the compressor motor windings against excessive temperature and / or excessive current drawn by the compressor.

Inner groove copper tubing

Efficient trapeziform inner groove copper tubing compared with traditional copper tubing allows for more refrigerant flow, improves heat exchange efficiency and lowers power consumption while keeping the same capacity output level.

Air management system

Efficient for both condensing and evaporator units leading to maximum air flow with efficient operation.

Efficient aluminum filter

Efficient anti-dust washable aluminum air filters for clean indoor air quality (IAQ).

Quiet operation

Patented centrifugal blowers for evaporator unit, new coil design, improved air management system and quiet DC motor ensure quiet operation.

Efficient DC indoor motor

The direct current multi speed indoor motor allows for minimum electrical consumption and high efficiency.

Standard wired controller

Complete control and safety functions built in the control system to ensure comfort, efficiency, safety and reliability at all operating conditions. Also availavle with an Optional wireless controller.

Auto restart function

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

Anti-freezing protection

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

Refrigerant leak detection

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