



AIR CONDITIONING SOLUTIONS
Inverter Ducted Split Systems
42/38 QDMT-DN
42/38 QDHT-DN

ClassiCOOL
Inverter



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



Super Tropical

High Efficient Performance

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

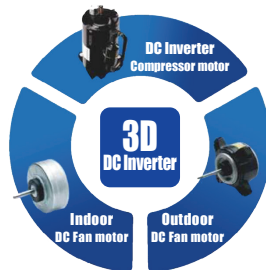
Carrier's range of condensing units guarantee continuous exceptional cooling performance in extreme ambient conditions.



3D DC Inverter

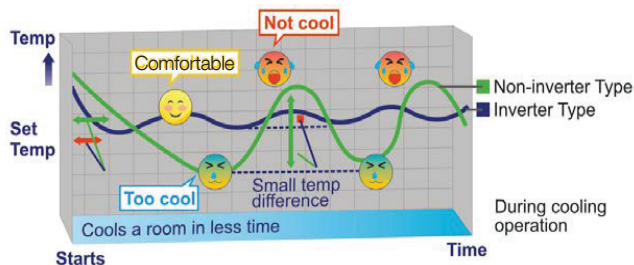
3D Full DC Inverter Technology More Economic & Energy Saving

Besides the compressor motor, both the indoor and outdoor fan motors are brushless DC type. Owing to the function of brushless DC motors, the 3D DC Inverter air conditioner gains higher efficiency and makes quieter operation which helps save more energy and enhance comfort.



More Comfortable & Faster Cooling

After quickly reaching the set temperature, Inverter air conditioner finely adjusts output power to maintain a constant temperature with minimal fluctuation, and guarantees a pleasant, comfortable environment.



More Powerful and Reliable

The advanced compressor and inverter control are designed to deliver comfortable, cold air, even with outside temperatures as high as 60°C.



Super Tropical up to 60°C ambient



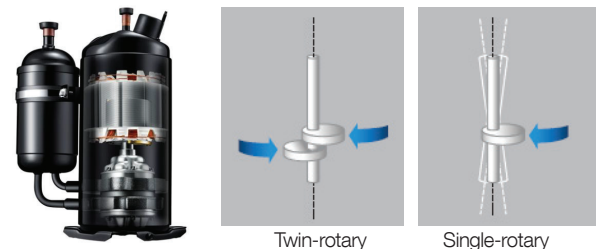
Control box cooling down system

Twin-rotary DC Inverter Super Tropical Compressor High Efficiency

Rotating with two rollers at the same time makes accurate compressor rotation with less energy loss. Great performance in part load which leads to a lower seasonal power consumption.

High reliability and lower noise

Twin rotary DC inverter technology deliver stable performance with less vibration.



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 settings when the power returns.



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 panel of evaporator unit for easy service and maintenance.



Smart 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 wired controller and also on the display panel of indoor ducted evaporator unit for easy service and maintenance.

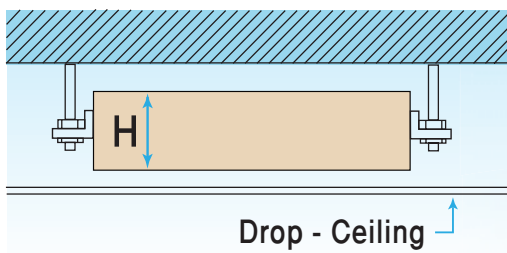
A **unique** collection of **advantages**

ClassiCOOL, slim line, compact dimensions ceiling concealed inverter ducted split system is the optimum air conditioning solution for places which require ceiling installation above false ceiling, energy saving and minimum sound levels. Its slim profile and flexible installation make this system the best choice for residential and light commercial applications where the units are practically hidden from view.

Carrier's advanced standard smart wired controller represents the highest degree of comfort management with complete control and protection functions built in the electronic system to ensure comfort, and safety at all operating conditions.

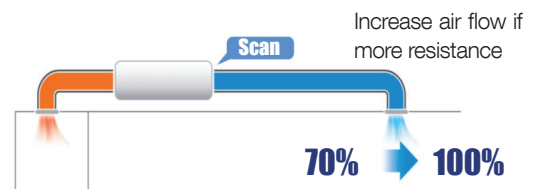
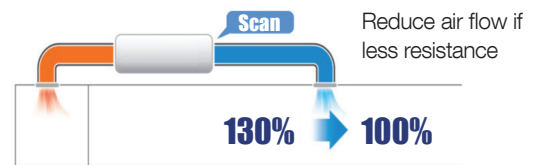


Slim, low height, compact ducted indoor evaporator unit



Constant Air Flow Control Technology

For the actual installation of ducted split system with actual ducting system, the actual static pressure and actual air flow can be lower than or higher than the design static pressure and design air flow. It will be difficult for an experienced installer to calculate and adjust the air flow precisely. Constant Air Flow Control Technology automatically measures the real actual static pressure and automatically adjusts fan speed to perfect static pressure and keep constant air flow as per the actual ducting system to make the installation much faster.



Efficient Anti-dust Aluminum Filter

Efficient anti dust washable aluminum air filters for clean and healthy air.



Fresh Air (Available when needed)

Ducted indoor units 18k - 24k - 36k is fitted with a fresh air knock out panel that can be utilized to introduce fresh air into the room. This helps prevent the build of stale air and enhances air quality in working environments and enclosed applications without natural fresh air supply.



Quiet with Minimum Sound Level

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



Smart Link Communication Technology to BMS (Building Management System)

Carrier ducted split systems can be connected to BMS through BMS gateway (BACnet..etc.) for complete control solutions.



Optional Smart WiFi Kit

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.

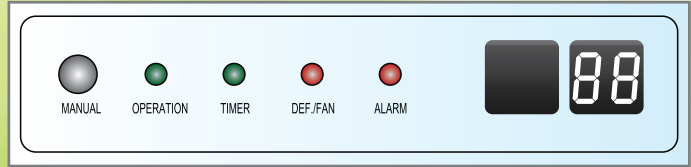


WiFi kit - smart port





Standard Smart LCD infrared wireless remote control with complete control functions built in the control system to ensure efficiency at all operating conditions.

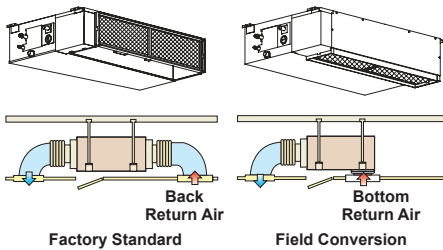


Smart self-diagnostic function for malfunctions detection through the leds of display panel for easy fast service and maintenance.

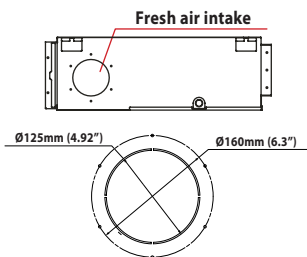


Easy Installation and Service

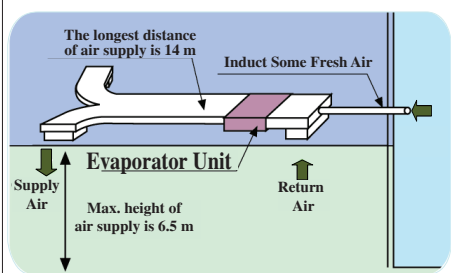
Flexible two directions of return air ducted indoor units 18k - 24k - 36k



Fresh air ducted indoor units 18k - 24k - 36k

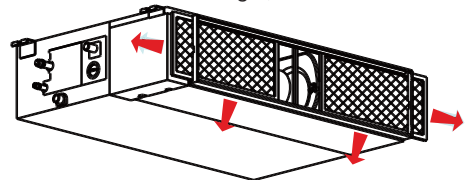


High Static Pressure design for ducted indoor units 48k - 60k

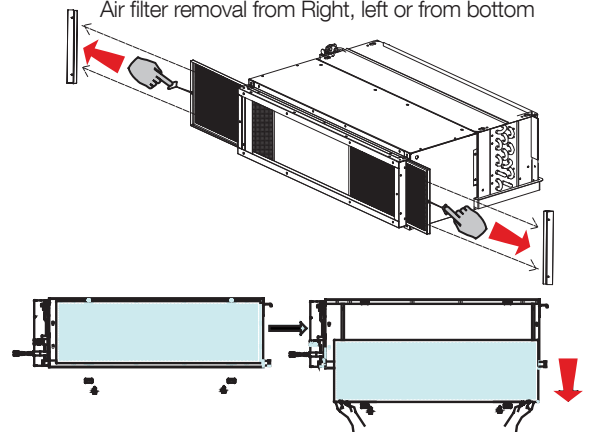


Easy removal of washable aluminum air filters for cleaning

Ducted indoor units 18k - 24k - 36k
Air filter removal from Right, left or from bottom

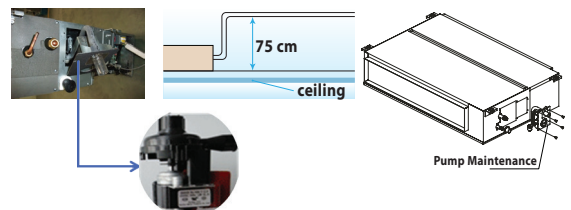


Ducted indoor units 48k - 60k
Air filter removal from Right, left or from bottom



Optional Drain Pump

Optional drain pump which can lift the condensate water up to 75 cm upmost.
Optional drain pump could be installed in the field.



Technical Specifications

System type		Heat pump	Heat pump	Heat pump	Heat pump	Heat pump
System model		53QDMT18DN-718 A6	53QDMT24DN-718 A6	53QDMT36DN-718 A6	53QDHT48DN-518 TG	53QDHT60DN-518 TG
Indoor unit model		42QDMT18DN-718 A6	42QDMT24DN-718 A6	42QDMT36DN-718 A6	42QDHT48DN-718 TG	42QDHT60DN-718 TG
Outdoor unit model		38QDMT18DN-718 A6	38QDMT24DN-718 A6	38QDMT36DN-718 A6	38QDHT48DN-518 TG	38QDHT60DN-518 TG
Power supply	V/ph/Hz	220 / 1 / 50	220 / 1 / 50	220 / 1 / 50	380 / 3 / 50	380 / 3 / 50
Testing static pressure	Pa	25	25	37	50	50
Cooling capacity (max - rated - mid)	Btu/hr	15000 - 18500 - 6500	19800 - 23200 - 12000	32150 - 33250 - 14150	44000 - 46000 - 23430	50800 - 56200 - 22730
	kW	4.4 - 5.42 - 1.9	5.8 - 6.8 - 3.52	9.42 - 9.75 - 4.15	12.9 - 13.48 - 6.86	14.89 - 16.47 - 6.66
Input power - Cooling (max - rated - mid)	W	1419 - 1430 - 383	2175 - 1885 - 592	3713 - 2856 - 816	4575 - 3704 - 1287	5173 - 4415 - 1259
Input current - Cooling (max - rated - mid)	A	6.55 - 6.6 - 2.91	9.9 - 8.64 - 2.9	17.1 - 13.24 - 4.34	7.52 - 6.33 - 2.85	8.6 - 7.32 - 2.69
E.E.R. Weighted - Cooling	Btu/wh	15.41	17.27	15.14	16.00	16.00
	W/W	4.52	5.06	4.44	4.69	5.69
Heating capacity	Btu/hr	18650	27350	34000	49000	53200
	kW	5.47	8.02	9.96	14.36	15.61
Input power - Heating	W	1448	2161	2720	3819	4150
Input current - Heating	A	6.72	9.84	12.76	6.36	6.98
C.O.P - Heating	W/W	3.78	3.71	3.66	3.76	3.76
Indoor unit model		42QDMT18DN-718 A6	42QDMT24DN-718 A6	42QDMT36DN-718 A6	42QDHT48DN-718 TG	42QDHT60DN-718 TG
Nominal air flow (high / med / low)	cfm	611 / 524 / 421	801 / 703 / 547	1331 / 1109 / 804	1669 / 1427 / 1169	1981 / 1733 / 1454
	m ³ /hr	1038 / 890 / 716	1362 / 1194 / 929	2261 / 1884 / 1366	2835 / 2424 / 1986	3365 / 2945 / 2470
External static pressure range	in.wg	0 ~ 0.32	0 ~ 0.40	0 ~ 0.48	0 ~ 0.64	0 ~ 0.64
	Pa	0 ~ 80	0 ~ 100	0 ~ 120	0 ~ 160	0 ~ 160
Sound Pressure (high / med / low) as per ISO 3745 standard	dB(A)	46.8 / 43.6 / 39.8	42.9 / 41.1 / 36.7	50.3 / 48.4 / 43.4	49.5 / 47 / 44.9	51.5 / 48.8 / 45.9
Net Dimensions (W x H x D)	mm	880 x 210 x 674	1100 x 249 x 774	1200 x 300 x 874	1200 x 380 x 625	1400 x 440 x 858
Net Weight	kg	25.2	30.2	42.8	55.9	72.7
Outdoor unit model		38QDMT18DN-718 A6	38QDMT24DN-718 A6	38QDMT36DN-718 A6	38QDHT48DN-518 TG	38QDHT60DN-518 TG
Compressor type		Super Tropical DC Inverter Twin Rotary				
Refrigerant type / Coupler type		R410A / Flare				
Sound pressure as per ISO 3745 standard	dB(A)	59.6	59.6	62.6	66.5	66.0
Net Dimensions (WxHxD)	mm	845 x 702 x 363	946 x 810 x 410		952 x 1333 x 415	
Net Weight	kg	41.2	55.3	66.5	94	97.3
System installation data						
Pipe connection sizes (Gas x Liquid)	inch	1/2" x 1/4"	5/8" x 3/8"	3/4" x 3/8"	3/4" x 3/8"	7/8" x 3/8"
Maximum pipe length	m	30	50	50	50	50
Maximum height difference	m	20	25	25	30	30
Recommended Wire Size / No. of Wires from Power Supply to Outdoor Unit	(Qty) mm ²	4 mm ² (2 Wires +1 Earth)	4 mm ² (2 Wires +1 Earth)	6 mm ² (2 Wires +1 Earth)	2.5 mm ² (4 Wires +1 Earth)	2.5 mm ² (4 Wires +1 Earth)
Recommended Wire Size / No. of Wires between Outdoor Unit and Indoor Unit	(Qty) mm ²	1 mm ² (3 Wires +1 Earth)	1 mm ² (3 Wires +1 Earth)	1 mm ² (3 Wires +1 Earth)	1 mm ² (3 Wires +1 Earth)	1 mm ² (3 Wires +1 Earth)
Drainage water pipe diam.	mm	OD Ø 25				

* **Cooling Capacity and Energy Efficiency Ratio (EER) based on Egyptian / International standards ES 5072:2017 / ISO 13253:2017 at operating conditions :**
43°C - 35°C - 29°C Ambient Temperature. 27/19°C db/wb Indoor Temperature. (220V : 18k-24k-36k) (380V : 48k-60k) power supply. High Air Flow

* **Systems work in cooling at high ambient temperature up to 60°C**

* **Heating Capacity and Coefficient of Performance (COP) based on Egyptian / International standards ES 5072:2017 / ISO 13253:2017 at operating conditions :**
20°C db Indoor Temperature. 7/6°C db/wb Outdoor Temperature. (220V : 18k-24k-36k) (380V : 48k-60k) power supply. High Air Flow

* **Carrier is committed for continuous improvement of Carrier products according to national and international standards to ensure the highest quality and reliability standards, and to meet market regulations and requirements.**

All specifications subject to change without prior notice according to Carrier policy of continuous development.



**For Customers
& Service & Sales**