



Tropical



220V ~ 50Hz 1Ph (12K ~ 36K)
380V ~ 50Hz 3Ph (48K ~ 60K)

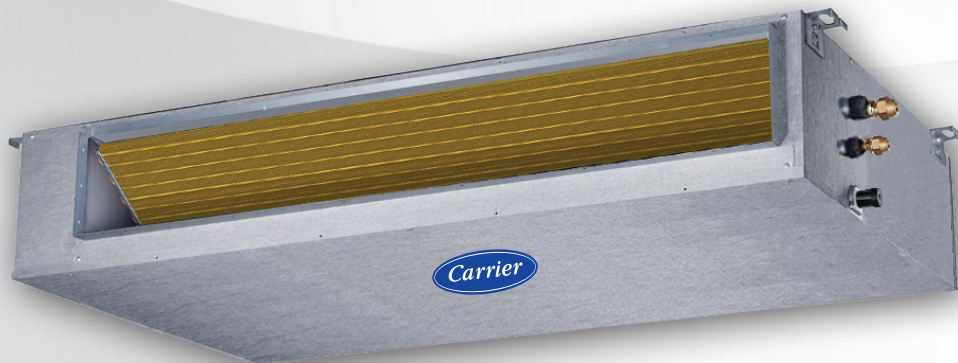


ClassiCOOL^{Pro}



Slim Line

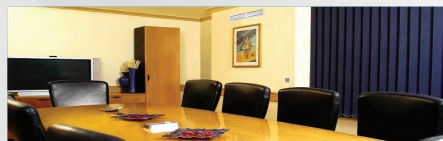
Compact Ceiling Concealed Ducted Split Systems



Heat Pump

53QDMT - N A6 Series

12K - 18K - 24K - 30K - 36K - 48K - 60K



- | | | | | | |
|--------------------------------------|----------------------------|------------------------------|-----------------------|----------------------------|---------------------------------|
| R-410A refrigerant | Tropical Compressor | Super Quiet | Turbo Function | Anti-Freezing Protection | Durability |
| Slim Compact Design | Medium Static Pressures | Wired Control | Follow Me Function | High Temp. Protection | Optional Drain Pump |
| Efficient Operation | Efficient Fans | Wireless Control | ECO Sleep Function | Cold Draft Protection | Easy Installation & Maintenance |
| Efficient Anti-dust Aluminum Filters | Efficient Coils | Auto Fan Speed | Timer Functions | Defrost Function | |
| Fresh Air (Available when needed) | Inner Groove Copper Tubing | Auto Mode | Auto Restart Function | Self diagnostic function | |
| Display Panel | Hydrophilic Golden Fins | Independent Dehumidification | 3 Minutes Time Delay | Refrigerant Leak Detection | |



SMART CONTROLS



Room Wired Controller

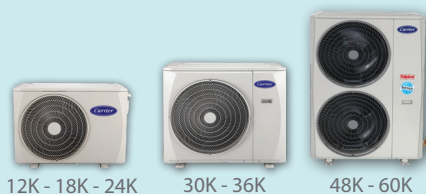


Wireless Remote Control

EFFICIENT, TROPICAL & QUIET



OUTDOOR UNITS



12K - 18K - 24K

30K - 36K

48K - 60K



ClassiCOOL^{Pro} medium static pressure, slim line, compact dimensions ceiling concealed ducted split is for commercial applications for the optimum air conditioning solution for places which require ceiling installation above false ceiling 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.

KEY FEATURES

Healthy & Clean Indoor Air Quality (IAQ)

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



The indoor unit 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.



Modern Slim Design

Compact invisible indoor unit with ultra slim profile and low height is just 210 mm for sizes 12K-18K, 249 mm for sizes 24K-30K, 300 mm for sizes 36K - 48K - 60K suitable for low false ceiling applications.



Smart LED display panel shows control functions and also shows error code in case of a malfunction.



Efficient Tropical Operation with Minimum Electrical Consumption

Works with the new R-410A refrigerant which increases its energy efficiency and does not degrade the ozone layer.



Advanced heat transfer and aerodynamics technologies to ensure perfect operation up to 52°C outdoor ambient temperature for energy saving and low operating cost.



Efficient tropical compressor works in high ambient temperature up to 52°C with high efficiency and low electrical consumption leading to true powerful system cooling.



Superior air distribution performance : Three fan speeds to satisfy air flow and static pressure requirements to suit various applications.



Efficient Air Management System (AMS) of blow through design leading to maximum air flow with minimum turbulence for minimum air resistance, smooth airflow and efficient operation.



Carrier innovative outdoor axial fan technology for efficient operation with minimum air resistance and maximum air flow.



Carrier innovative double inlet, double width forward curved centrifugal blower technology driven by 3 speeds high efficiency motor permanent split capacitor type with low power consumption .



Efficient indoor and outdoor coils with large heat transfer surfaces for minimum electrical consumption.



Efficient Inner grooved copper tubing compared with traditional copper tubing, it allows more refrigerant flow, improves heat exchange efficiency and lowers power consumption while keeping the same capacity output level.



Precoated Hydrophilic Golden Fins of indoor coil to protect the coil against corrosion and to allow easy and quick removal of unrestricted condensate water between the coil fins to increase airflow, improve heat exchange efficiency and accelerate cooling process and provide higher efficiency with longer life and better corrosion resistance making it the best choice for coastal areas.



Key Features

Quiet with Minimum Sound Level

- Efficient centrifugal blower, new design heat exchangers, improved Air Management System (AMS), and quiet compressor.
- Statically and dynamically balanced fans for quiet operation.
- Minimum vibrations with strengthened sheet metal parts by finite element analysis.



Complete Control Functions For Comfort

Standard Smart Wired Controller with complete control functions built in the control system. Wired Controller can be fixed on the wall and avoid mislaying. It's mainly used to make the control more convenient.



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



Auto fan speed which changes automatically the fan speed to high or medium or low fan speed by sensing the temperature difference between the room temperature and the setting temperature.



Auto mode which changes automatically the operation mode and capacity output according to temperature difference between the room temperature and the setting temperature.



Independent Dehumidification mode which dehumidifies the room efficiently, but not lower the temperature so obviously as cooling operation.



ECO (sleep) function for energy saving and comfortable healthy sleep which automatically changes fan speed to low speed and controls both setting and room temperatures.



Programmable timer for easy on and off selection with energy savings including off timer, on timer, off/on timer and on/off timer functions.



Follow Me function for smart control of comfortable temperature. With this technology, an efficient temperature sensor is built in the wired controller or wireless remote controller just like the air conditioner is following wired controller or wireless remote controller.



Turbo function which automatically changes the fan speed to maximum speed to maximize the cooling capacity output to cool down the room rapidly and to attain the desired temperature in the shortest time. Through wireless remote control.



Optional Smart Link central Control to monitor from a center point, the operation of number of ducted indoor units in the same project site. This feature is particularly helpful in large office applications and hotels.



Optional Smart Link communications to BMS (Building Management System) through BMS gateway (BACnet, ... etc.) for Complete Control Solutions.



Durability

Anti-rust, weather proof and long life indoor unit sheet metal parts made of chemically treated and zinc coated (galvanized) sheet metal.



Anti-rust, weather proof and long life outdoor unit sheet metal parts made of chemically treated and zinc coated (galvanized) sheet metal.



Powder painted casing of outdoor unit with perfect adhesion of highly resistant polyester paint 60-80 microns thick, which is electro-statically applied and baked at a temperature of 220°C.

Complete Protection Functions for Safety & Reliability

Auto restart function. When the power failure happens during the operation of air conditioner, the microprocessor of the Printed Circuit Board will operate auto restart function. After the power is recovered, the air conditioner operates automatically but after elapse of compressor safety time delay.



3 (three) minutes safety time delay between compressor turning off and turning on for compressor protection against cycling.



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



High temperature protection of outdoor coil when the air conditioner is operating in cool mode.



Cold draft protection when the air conditioner is operating in heat mode to prevent cold air blowing out at the beginning of heat mode which avoids the discomfort to the user.



Overheating Protection of indoor coil when the air conditioner is operating in heat mode.



Defrost function of outdoor coil when the air conditioner is operating in heat mode at very low ambient temperature.



Smart self-diagnostic function for malfunctions detection for easy fast service and maintenance.



Smart Refrigerant leak detection by sensitive sensor mounted on indoor coil for easy fast service and maintenance.



Auto reset – internal thermal protector of indoor and outdoor fan motors to protect motor windings against excessive temperature.



- Auto reset – internal overload protector of the compressor to protect compressor motor windings against excessive temperature.
- External overload protector of compressor (For sizes 48K – 60K 3 Phase) to protect compressor windings against excessive current.
- Internal pressure relief valve of compressor (For sizes 48K – 60K) to protect compressor against high discharge pressures.



The components of both indoor and outdoor units comply with international standards of performance and safety.





Easy, Fast and Flexible Installation

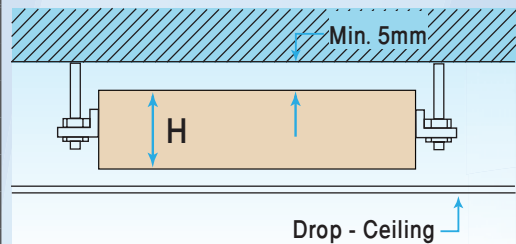


Due to slim low height, compact dimensions and light weight of ducted Indoor units, the installation of ducted indoor unit on the ceiling is faster and extremely easy.

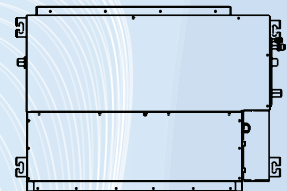


Slim Low Height Compact Dimensions & Light Weight

Size	Dimensions (mm)			Net Weight Kg
	W	H	D	
12K	880	210	675	24
18K				
24K	1100	249	775	33
30K				
36K	1200	300	875	47
48K				
60K				



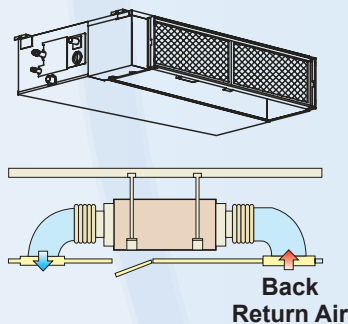
Indoor unit is equipped with flange connections for both supply and return air ducts to facilitate ducts installation works. Mounting holes and slots are predrilled to save installation time and field labor expense.



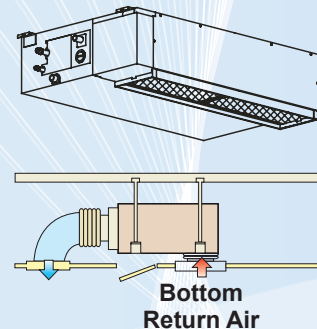
Flexible two directions of air return :

As per the installation requirements, air return can be from indoor unit back (factory standard) or from indoor unit bottom (field converted)

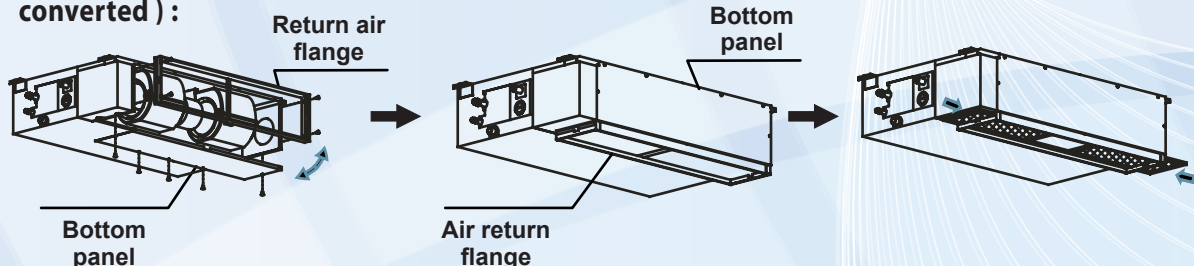
Back air return (factory standard)



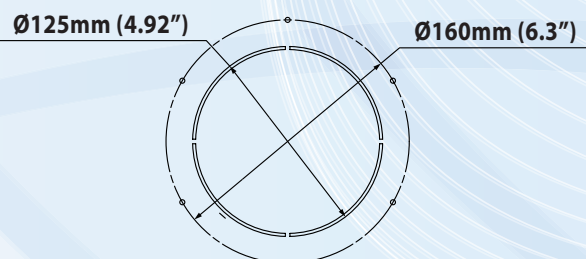
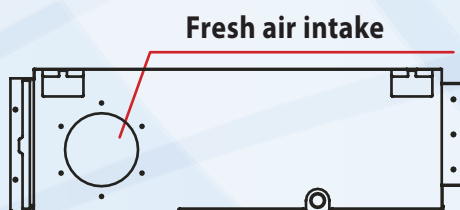
Bottom air return (can be converted at field).



Easy procedure for changing back air return (factory standard) to bottom air return (field converted) :



Pre-Punched Fresh air intake built in the ducted indoor unit to make air quality more healthy and more comfortable.



Key Features



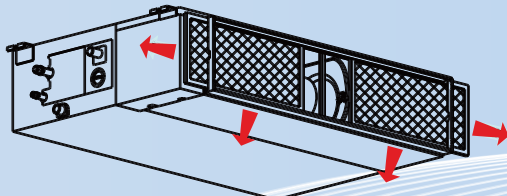
Easy, Fast Service and Maintenance



Easy removal of washable aluminum air filters for cleaning.

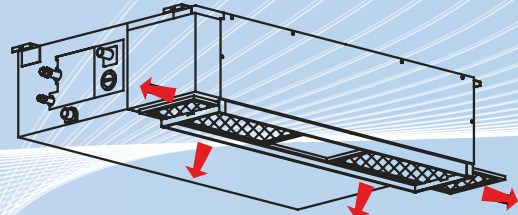
Air filter removal from Right, left or from bottom

If the air filters are located in the back of indoor unit, remove air filters as shown in the figure.



Back return air
(factory standard)

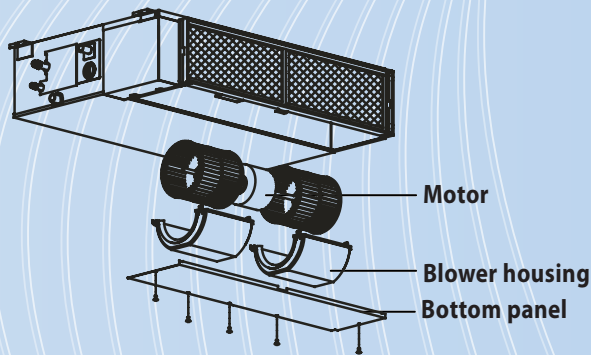
If the air filters are located in the bottom of indoor unit, remove air filters as shown in the figure.



Bottom return air
(field converted)

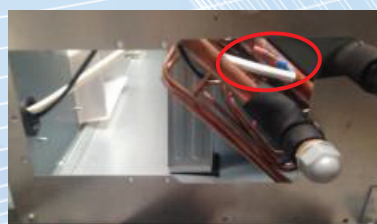


Easy maintenance of indoor fan motor from the bottom more easily compared with that on the top.
Easy removal of fan motor from the bottom of ducted indoor unit.



Easy removal of sensors of ducted indoor unit

Ducted indoor unit has big space at side for service and maintenance.
which leads to easy removal of indoor coil sensor and return air sensor for checking and repair.

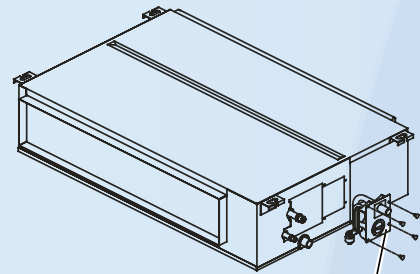
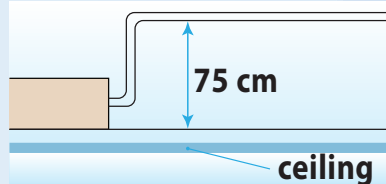
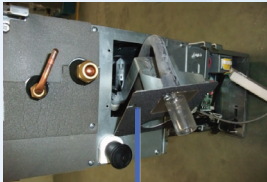




Easy, Fast Service and Maintenance



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

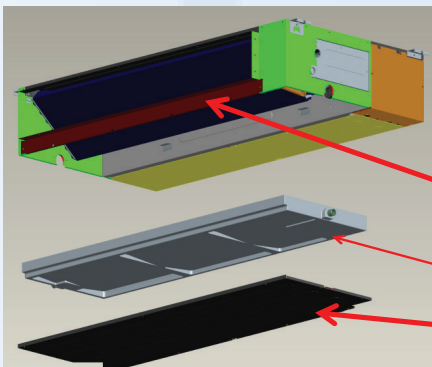


Pump Maintenance



Easy cleaning of drain pan and indoor coil

▪ For ducted indoor unit, the front panel and outlet flange are separate which makes it easy to disassemble the drain pan and indoor coil for cleaning.



Flange

Drain Pan

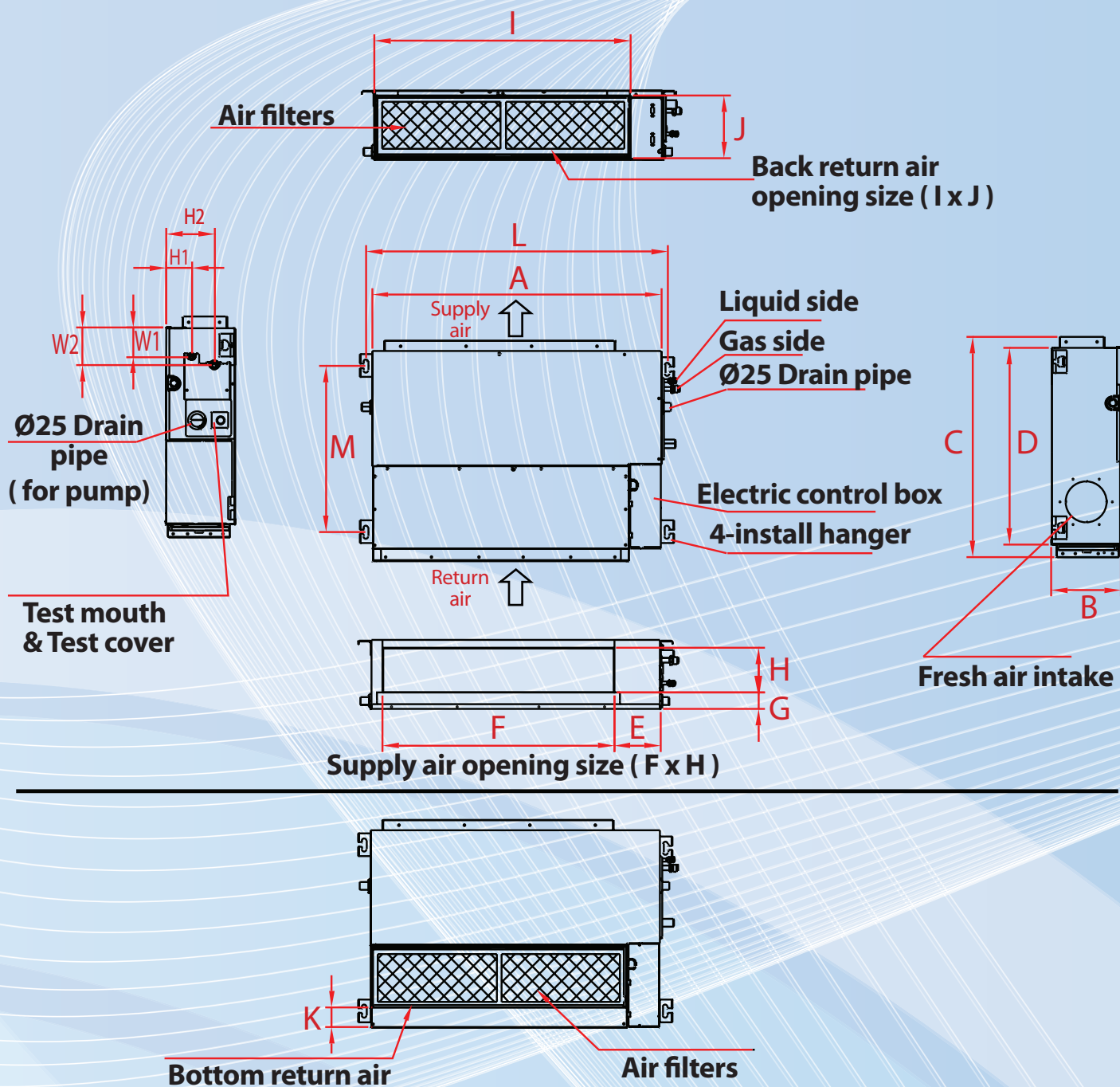
Front Panel

▪ Ducted indoor unit has large window design which leads to easy cleaning of drain pan and indoor coil after removing motor and blower wheels because drain pan and indoor coil can be seen very clearly. Dust can be easily removed from the inside by vacuum.



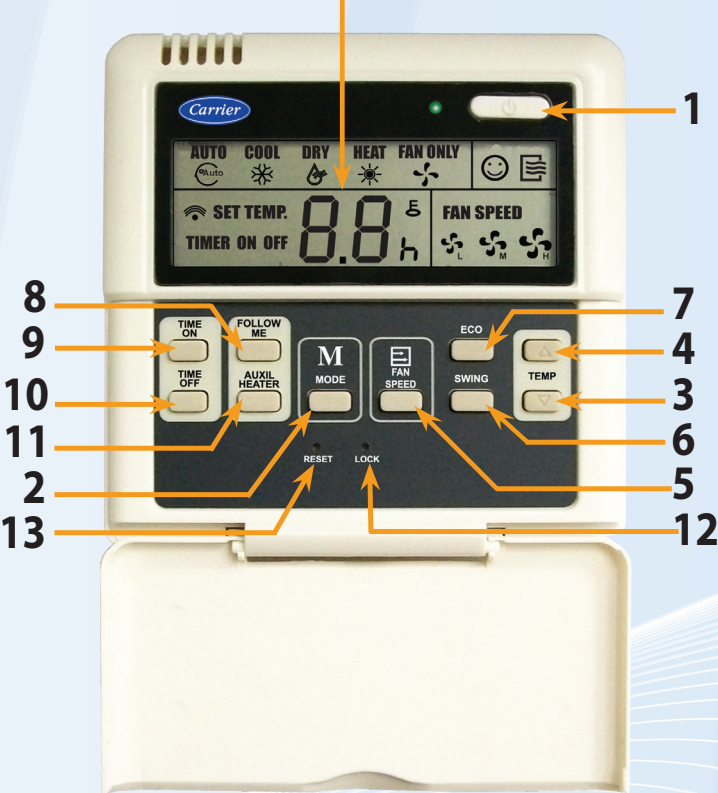
Ducted Indoor Unit Dimensions (mm) and Weights (Kg)

Indoor Unit Model	Weight Kg	Indoor Unit Dimensions				Supply Air Opening Dimensions				Return Air Opening Dimensions					Piping Location Dimensions			
		A	B	C	D	E	F	G	H	I	J	K	L	M	H1	H2	W1	W2
42QDMT12N-718A6	24	880	210	675	600	140	706	50	136	782	190	40	920	508	78	148	88	112
42QDMT18N-718A6																		
42QDMT24N-718A6	33	1100	249	775	700	140	926	50	175	1001	228	5	1140	598	80	150	130	155
42QDMT30N-718A6																		
42QDMT36N-718A6	47	1200	300	875	800	123	1044	50	227	1101	280	5	1240	697	80	150	185	210
42QDMT48N-718A6																		
42QDMT60N-718A6																		



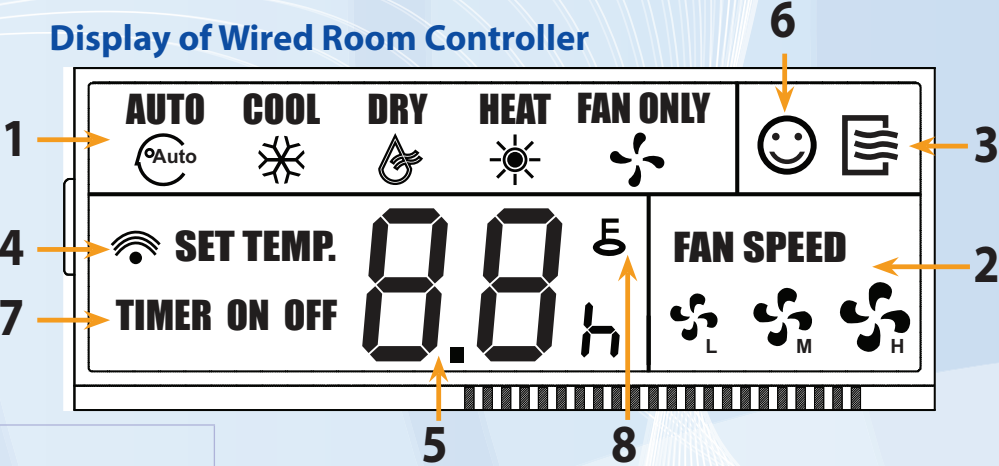
Room Wired Controller

Display of Wired Room Controller



- | | |
|----|----------------------------------------------------------------------------------------------------------------------------|
| 1 | ON / OFF button |
| 2 | MODE selection button |
| 3 | Decrease temperature button |
| 4 | Increase temperature button |
| 5 | FAN SPEED selection button |
| 6 | SWING function button
(This function does not work with ducted indoor units but works with other indoor types) |
| 7 | ECO function button |
| 8 | FOLLOW ME function button |
| 9 | TIMER ON function button |
| 10 | TIMER OFF function button |
| 11 | AUXIL HEATER function button
(This function does not work with ducted indoor units but works with other indoor types) |
| 12 | LOCK function button |
| 13 | RESET function button |

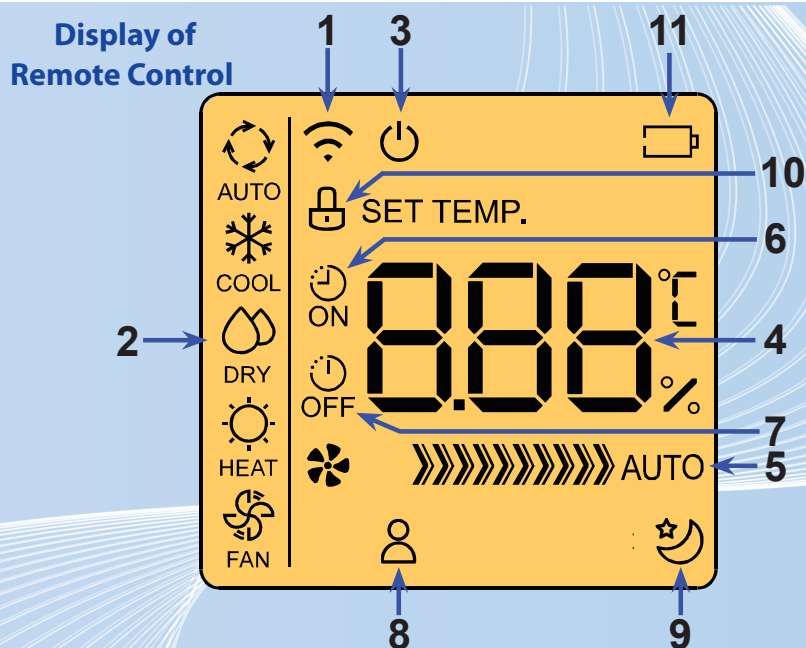
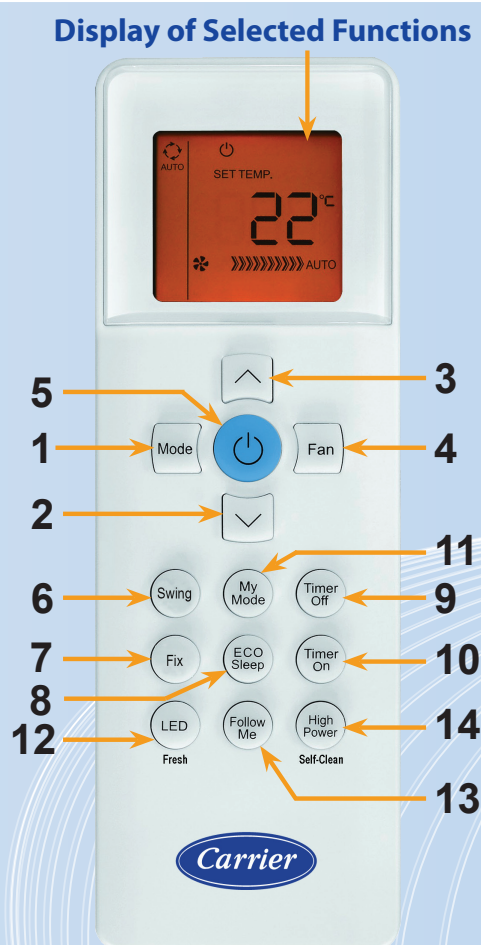
Display of Wired Room Controller








1	MODE indicator
AUTO	AUTO Mode indicator
COOL	COOL Mode indicator
DRY	DRY Mode indicator
HEAT	HEAT Mode indicator
FAN ONLY	FAN Mode indicator
2	FAN SPEED indicator
L	Low Fan Speed indicator
M	Medium Fan Speed indicator
H	High Fan Speed indicator
	Auto Fan Speed indicator

3	ON / OFF indicator
4	Signal transmission indicator
5	Temperature setting indicator (Room temperature in case of use Follow Me Function)
6	ECO function indicator
7	TIMER ON or TIMER OFF function indicator
8	LOCK function indicator

Wireless Remote Control



1	Signal transmission indicator
2	Operation MODE indicator
 AUTO	Automatic
 COOL	Cooling
 DRY	Dehumidification only
 HEAT	Heating
 FAN	Ventilation (fan only)
3	ON / OFF indicator
4	SET TEMP. indicator
5	FAN SPEED indicator
»»»	Low FAN SPEED indicator
»»»»»	Medium FAN SPEED indicator
»»»»»»»»»	High FAN SPEED indicator
»»»»»»»»» AUTO	Automatic FAN SPEED indicator
6	TIMER ON function indicator
7	TIMER OFF function indicator
8	FOLLOW ME function indicator
9	Sleep function indicator
10	LOCK function indicator
11	Batteries exhausted indicator

Control Buttons

1	MODE selection button AUTO - COOL - DRY - HEAT - FAN
2	Decrease temperature button Each time you press the button, the temperature decreased by 1°C
3	Increase temperature button Each time you press the button, the temperature increased by 1°C
4	FAN selection button High - Medium - Low - Auto fan speed
5	ON/OFF button
6	Louvers Auto Swing button * Press more than 2 seconds, louver will swing up and down automatically
7	Louvers position button * Press less than 2 seconds to change louver position 6 degree up and down
8	ECO Sleep function button
9	TIMER OFF function button
10	TIMER ON function button
11	My Mode function button to memorize the preferred settings
12	Panel LED display on/off function button Fresh air function button *
13	Follow Me function button (Based on remote control sensor)
14	TURBO High Power function button Self Clean function button *

Note : * This function does not work with this product but works with other products

Air Flow Versus External Static Pressure

42QDMT12N-718A6				
ESP	in.wg	0	0.10	0.20
	Pa	0	25	50
Air Flow		cfm	cfm	cfm
		m ³ /h	m ³ /h	m ³ /h
High Speed		623	551	481
		1058	936	817
Medium Speed		545	491	429
		926	834	729
Low Speed		480	425	362
		816	722	615

42QDMT18N-718A6						
ESP	in.wg	0	0.10	0.20	0.30	0.40
	Pa	0	25	50	75	100
Air Flow		cfm	cfm	cfm	cfm	cfm
		m ³ /h	m ³ /h	m ³ /h	m ³ /h	m ³ /h
High Speed		688	607	521	420	280
		1169	1031	885	714	476
Medium Speed		623	551	481	383	253
		1058	936	817	651	430
Low Speed		545	491	429	293	179
		926	834	729	498	304

42QDMT24N-718A6							
ESP	in.wg	0	0.10	0.20	0.30	0.40	0.50
	Pa	0	25	50	75	100	125
Air Flow		cfm	cfm	cfm	cfm	cfm	cfm
		m ³ /h	m ³ /h	m ³ /h	m ³ /h	m ³ /h	m ³ /h
High Speed		874	866	835	795	746	697
		1485	1471	1419	1351	1267	1184
Medium Speed		735	721	694	661	569	477
		1249	1225	1179	1123	967	810
Low Speed		638	618	591	555	473	391
		1084	1050	1004	943	804	664

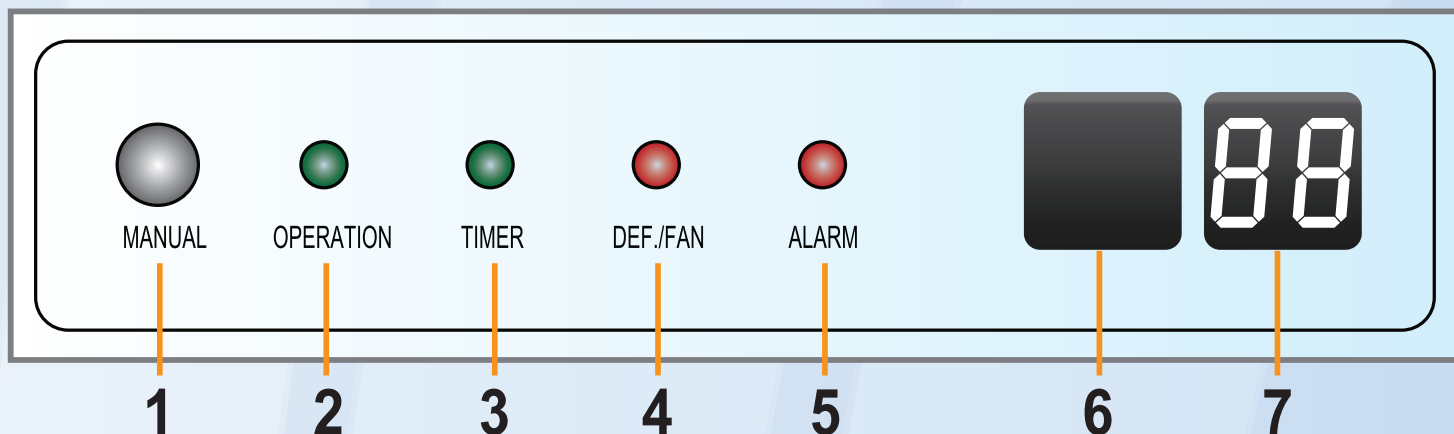
42QDMT30N-718A6								
ESP	in.wg	0	0.10	0.15	0.20	0.30	0.40	0.50
	Pa	0	25	37	50	75	100	125
Air Flow		cfm	cfm	cfm	cfm	cfm	cfm	cfm
		m ³ /h	m ³ /h	m ³ /h	m ³ /h	m ³ /h	m ³ /h	m ³ /h
High Speed		1087	1017	987	951	877	779	681
		1847	1728	1677	1616	1490	1324	1157
Medium Speed		936	873	844	815	755	678	601
		1590	1483	1434	1385	1283	1152	1021
Low Speed		817	758	736	707	648	578	508
		1388	1288	1250	1201	1101	982	863

Air Flow Versus External Static Pressure

42QDMT36N-718A6									
ESP	in.wg	0	0.10	0.15	0.20	0.30	0.40	0.50	0.60
	Pa	0	25	37	50	75	100	125	150
Air Flow		cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
		m³/h	m³/h	m³/h	m³/h	m³/h	m³/h	m³/h	m³/h
High Speed		1464	1376	1347	1298	1135	1042	905	758
		2487	2338	2289	2205	1928	1770	1538	1288
Medium Speed		1290	1230	1210	1175	1035	930	850	670
		2192	2090	2056	1996	1758	1580	1444	1138
Low Speed		1140	1070	1040	990	885	780	645	522
		1937	1818	1767	1682	1504	1325	1096	887

42QDMT48N-718A6-E01									
ESP	in.wg	0	0.10	0.15	0.20	0.30	0.40	0.50	0.60
	Pa	0	25	37	50	75	100	125	150
Air Flow		cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
		m³/h	m³/h	m³/h	m³/h	m³/h	m³/h	m³/h	m³/h
High Speed		1667	1593	1564	1523	1442	1346	1135	981
		2832	2707	2657	2588	2450	2287	1928	1667
Medium Speed		1468	1400	1363	1327	1251	1135	1045	872
		2494	2379	2316	2255	2125	1928	1775	1482
Low Speed		1297	1242	1218	1200	1078	961	830	703
		2204	2110	2069	2039	1832	1633	1410	1194

42QDMT60N-718A6-E01									
ESP	in.wg	0	0.10	0.15	0.20	0.30	0.40	0.50	0.60
	Pa	0	25	37	50	75	100	125	150
Air Flow		cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
		m³/h	m³/h	m³/h	m³/h	m³/h	m³/h	m³/h	m³/h
High Speed		1667	1593	1564	1523	1442	1346	1135	981
		2832	2707	2657	2588	2450	2287	1928	1667
Medium Speed		1468	1400	1363	1327	1251	1135	1045	872
		2494	2379	2316	2255	2125	1928	1775	1482
Low Speed		1297	1242	1218	1200	1078	961	830	703
		2204	2110	2069	2039	1832	1633	1410	1194



1 MANUAL Button

- * This button is used to operate the unit temporarily during maintenance/repair operations.
- * Once you push temporary button, the air conditioner will run in such order:
Auto, Forced cool, off and back to Auto

AUTO

The OPERATION lamp is lit, and the air conditioner will run under AUTO mode.

FORCED COOL

The OPERATION lamp flashes, the air conditioner will turn to AUTO after it is enforced to cool with a wind speed of HIGH for 30 minutes. The remote controller operation is disabled.

OFF

The OPERATION lamp goes off. The air conditioner is OFF while the remote controller operation is enabled.

2 OPERATION green led

- * OPERATION green led lights on when the air conditioner operates
- * OPERATION green led lights off when the air conditioner stops

3 TIMER green led

- * TIMER green led lights on when timer function operates
- * TIMER green led lights off when timer function stops

4 DEF. / FAN red led

This led lights on when defrost protection is activated and lights off when defrost protection terminates in heat mode.

5 ALARM red led

ALARM red led flashes when there is a malfunction in outdoor unit

6 Infrared Signal Receiver

(In case of using wireless remote control)

7 Digital Display

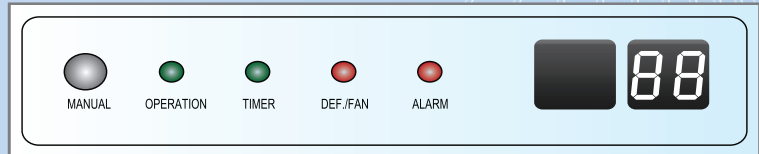
This display shows error code in case of a malfunction.

Smart Self Diagnostic Function For Malfunction Detection



The electronic printed circuit board in the indoor unit is equipped with smart self diagnostic function which automatically stops the operation of the air conditioner in case of a malfunction.

Leds Status and Error Code on the display panel of indoor unit (all sizes) refer to malfunction reason for easy fast service and maintenance.



Malfunction Reason	Error Code	LED OPERATION	LED TIMER	LED DEF.FAN	LED ALARM
Indoor EEPROM parameter malfunction	E0	1 times	X	X	X
Open or short circuit of outdoor coil temperature sensor T3	F2	3 times		X	X
Open or short circuit of indoor room temperature sensor T1	E4	5 times	X	X	X
Open or short circuit of indoor coil temperature sensor T2	E5	6 times	X	X	X
Refrigerant Leak or any malfunction lead to stopping of compressor operation	EC	7 times	X	X	X
Water level sensor malfunction (in case of using optional drain pump)	EE	8 times	X	X	X
Jumper on J7 was loosen or not fixed it	CP	Alternately with lamp Timer	Alternately with lamp Operation	X	X
Damage PCB unit of indoor unit	FA	X	X	X	X
Error connection between PCB indoor unit & display panel, damage of display panel or damage PCB indoor unit.	b.b.				



Leds Status on the PCB of outdoor unitS 48K - 60K for :
only sizes 48K (3 Ph) and 60K (3 Ph) refers to malfunction reason

PCB Leds of outdoor unit				
48K - 60K	Malfunction Reason	LED 1	LED 2	LED 3
No malfunction			X	
Standby / Outdoor coil temperature sensor T3 (Open or short circuit)				
Phase loss or Phase reversal			X	X
Over-Current		X	X	X
Disconnect communication between indoor and outdoor units (Loss No. 1)		X	X	
There is no resistance T3 in outdoor PCB		X		
Outdoor ambient temperature sensor (Open or short circuit)		X		X
Jumper on LP was loosen or not fixed it				X
Disconnect communication between indoor and outdoor units (Loss No. 3)			X	X

● = Light

○ = Flashing at 5HZ

X = OFF

Technical Specifications

System type			Heat pump	Heat pump	Heat pump
System model			53QDMT12N-718A6	53QDMT18N-718A6	53QDMT24N-718A6
Indoor unit model			42QDMT12N-718A6	42QDMT18N-718A6	42QDMT24N-718A6
Outdoor unit model			38QDMT12N-718A6	38QDMT18N-718A6	38QDMT24N-718A6
Power supply	V/ph/Hz		220 / 1 / 50	220 / 1 / 50	220 / 1 / 50
Cooling capacity (@ 25 Pascal)	Btu/hr		12580	17825	24200
	kW		3.69	5.22	7.09
Input power - Cooling (@ 25 Pascal)	W		1170	1689	2303
Input current - Cooling (@ 25 Pascal)	A		5.51	7.8	10.62
E.E.R. – Cooling (@ 25 Pascal)	Btu/wh		10.75	10.55	10.51
	W/W		3.15	3.09	3.08
Energy Efficiency Level (according to EOS testing)			D	D	D
Heating capacity (@ 25 Pascal)	Btu/hr		11550	18230	23000
	kW		3.39	5.34	6.74
Input power - Heating (@ 25 Pascal)	W		973	1510	1867
Input current - Heating (@ 25 Pascal)	A		4.52	6.99	8.62
C.O.P - Heating (@ 25 Pascal)	W/W		3.48	3.54	3.61
Indoor unit model			42QDMT12N-718A6	42QDMT18N-718A6	42QDMT24N-718A6
Nominal air flow (high / med / low) (@ 25 Pascal)	cfm		551 / 491 / 425	607 / 551 / 491	866 / 721 / 618
	m³/hr		936 / 834 / 722	1031 / 936 / 834	1471 / 1225 / 1050
External static pressure range	in.wg		0 ~ 0.20	0 ~ 0.40	0 ~ 0.50
	Pa		0 ~ 50	0 ~ 100	0 ~ 125
Sound Pressure (high / med / low) as per ISO 3745 standard	dB(A)		44.2 / 42.1 / 39.5	44.2 / 42.1 / 39.5	43.6 / 40.5 / 37.9
Net Dimensions (W × H × D)	mm		880 x 210 x 675	880 x 210 x 675	1100 x 249 x 775
Net Weight	kg		24	24	33
Outdoor unit model			38QDMT12N-718A6	38QDMT18N-718A6	38QDMT24N-718A6
Tropical compressor type			Rotary	Rotary	Rotary
Refrigerant type / Coupler type			R410A / Flare	R410A / Flare	R410A / Flare
Net Dimensions (W×H×D)	mm		770 x 555 x 290	770 x 555 x 290	845 x 700 x 330
Sound pressure	dB(A)		58.1	60.7	60.9
Net Weight	kg		32	36	50
System Installation Data					
Pipe connection sizes (Gas x Liquid)	inch		1/2" x 1/4"	1/2" x 1/4"	5/8" x 3/8"
Maximum pipe length	m		13	20	20
Maximum height difference	m		5	10	10
Drainage water pipe diam.	mm		OD Ø 25	OD Ø 25	OD Ø 25
Recommended Wire Size / No. of Wires from Power Supply to Outdoor Unit	mm² (Qty)		3 mm² (2 Wires +1 Earth)	4 mm² (2 Wires +1 Earth)	4 mm² (2 Wires +1 Earth)
Recommended Wire Size / No. of Wires between Outdoor Unit and Indoor Unit	mm² (Qty)		1 mm² (5 Wires +1 Earth)	1 mm² (5 Wires +1 Earth)	1 mm² (5 Wires +1 Earth)

* **Cooling Capacity and Energy Efficiency Ratio (EER) based on Egyptian / International standards ES 3795-5:2018 / ES 5072:2017 / ISO 13253:2017 at operating conditions :**
 35°C Outdoor Temperature. 27/19°C db/wb Indoor Temperature. High Air Flow 220 volts power supply

* **Systems work in cooling at high ambient temperature up to 52°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. High Air Flow 220 volts power supply

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

Technical Specifications

System type			Heat pump	Heat pump
System model			53QDMT30N-718A6	53QDMT36N-718A6
Indoor unit model			42QDMT30N-718A6	42QDMT36N-718A6
Outdoor unit model			38QDMT30N-718A6	38QDMT36N-718A6
Power supply	V/ph/Hz		220 / 1 / 50	220 / 1 / 50
Cooling capacity (@ 37 Pascal)	Btu/hr		28700	35200
	kW		8.41	10.32
Input power - Cooling (@ 37 Pascal)	W		2733	3340
Input current - Cooling (@ 37 Pascal)	A		12.78	15.00
E.E.R. – Cooling (@ 37 Pascal)	Btu/wh		10.50	10.54
	W/W		3.08	3.09
Energy Efficiency Level (according to EOS testing)			D	D
Heating capacity (@ 37 Pascal)	Btu/hr		28800	33400
	kW		8.44	9.79
Input power - Heating (@ 37 Pascal)	W		2443	2664
Input current - Heating (@ 37 Pascal)	A		11.62	12.12
C.O.P - Heating (@ 37 Pascal)	W/W		3.45	3.67
Indoor unit model			42QDMT30N-718A6	42QDMT36N-718A6
Nominal air flow (high / med / low) (@ 37 Pascal)	cfm		987 / 844 / 736	1347 / 1210 / 1040
	m³/hr		1677 / 1434 / 1250	2289 / 2056 / 1767
External static pressure range	in.wg		0 ~ 0.50	0 ~ 0.60
	Pa		0 ~ 125	0 ~ 150
Sound Pressure (high / med / low) as per ISO 3745 standard	dB(A)		48.7 / 42.5 / 40.9	48.5 / 45 / 41
Net Dimensions (W × H × D)	mm		1100 x 249 x 775	1200 x 300 x 875
Net Weight	kg		33	47
Outdoor unit model			38QDMT30N-718A6	38QDMT36N-718A6
Tropical compressor type			Twin Rotary	Twin Rotary
Refrigerant type / Coupler type			R410A / Flare	R410A / Flare
Net Dimensions (W×H×D)	mm		945 x 810 x 400	945 x 810 x 400
Sound pressure	dB(A)		64	64
Net Weight	kg		66	67
System Installation Data				
Pipe connection sizes (Gas x Liquid)	inch		5/8" x 3/8"	3/4" x 3/8"
Maximum pipe length	m		25	25
Maximum height difference	m		10	10
Drainage water pipe diam.	mm		OD Ø 25	OD Ø 25
Recommended Wire Size / No. of Wires from Power Supply to Outdoor Unit	mm² (Qty)		6 mm² (2 Wires +1 Earth)	6 mm² (2 Wires +1 Earth)
Recommended Wire Size / No. of Wires between Outdoor Unit and Indoor Unit	mm² (Qty)		1 mm² (5 Wires +1 Earth)	1 mm² (5 Wires +1 Earth)

* **Cooling Capacity and Energy Efficiency Ratio (EER) based on Egyptian / International standards ES 3795-5:2018 / ES 5072:2017 / ISO 13253:2017 at operating conditions :**
 35°C Outdoor Temperature. 27/19°C db/wb Indoor Temperature. High Air Flow 220 volts power supply

* **Systems work in cooling at high ambient temperature up to 52°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. High Air Flow 220 volts power supply

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Technical Specifications

System type			Heat pump	Heat pump
System model			53QDMT48N-518A6-E01	53QDMT60N-518A6-E01
Indoor unit model			42QDMT48N-718A6-E01	42QDMT60N-718A6-E01
Outdoor unit model			38QDMT48N-518A6-E01	38QDMT60N-518A6-E01
Power supply	V/ph/Hz		380 / 3 / 50	380 / 3 / 50
Cooling capacity (@ 50 Pascal)	Btu/hr		46000	53250
	kW		13.48	15.61
Input power - Cooling (@ 50 Pascal)	W		4107	5071
Input current - Cooling (@ 50 Pascal)	A		6.59	8.34
E.E.R. – Cooling (@ 50 Pascal)	Btu/wh		11.20	10.50
	W/W		3.28	3.08
Energy Efficiency Level (according to EOS testing)			C	D
Heating capacity (@ 50 Pascal)	Btu/hr		46000	54000
	kW		13.48	15.83
Input power - Heating (@ 50 Pascal)	W		3740	4602
Input current - Heating (@ 50 Pascal)	A		6.27	7.73
C.O.P - Heating (@ 50 Pascal)	W/W		3.6	3.44
Indoor unit model			42QDMT48N-718A6-E01	42QDMT60N-718A6-E01
Nominal air flow (high / med / low) (@ 50 Pascal)	cfm		1523 / 1327 / 1200	1523 / 1327 / 1200
	m ³ /hr		2588 / 2255 / 2039	2588 / 2255 / 2039
External static pressure range	in.wg		0 ~ 0.60	0 ~ 0.60
	Pa		0 ~ 150	0 ~ 150
Sound Pressure (high / med / low) as per ISO 3745 standard	dB(A)		57.6 / 52.7 / 51.1	57.6 / 52.7 / 51.1
Net Dimensions (W × H × D)	mm		1200 x 300 x 875	1200 x 300 x 875
Net Weight	kg		47	47
Outdoor unit model			38QDMT48N-518A6-E01	38QDMT60N-518A6-E01
Tropical compressor type			Scroll	Scroll
Refrigerant type / Coupler type			R410A / Flare	R410A / Flare
Net Dimensions (W×H×D)	mm		952 x 1333 x 415	952 x 1333 x 415
Sound pressure	dB(A)		69	67
Net Weight	kg		104.5	104.5
System Installation Data				
Pipe connection sizes (Gas x Liquid)	inch		3/4" x 3/8"	3/4" x 3/8"
Maximum pipe length	m		30	30
Maximum height difference	m		15	15
Drainage water pipe diam.	mm		OD Ø 25	OD Ø 25
Recommended Wire Size / No. of Wires from Power Supply to Outdoor Unit	mm ² (Qty)		4 mm ² (2 Wires +1 Earth)	6 mm ² (2 Wires +1 Earth)
Recommended Wire Size / No. of Wires between Outdoor Unit and Indoor Unit	mm ² (Qty)		1 mm ² (5 Wires +1 Earth)	1 mm ² (5 Wires +1 Earth)

* **Cooling Capacity and Energy Efficiency Ratio (EER) based on Egyptian / International standards ES 3795-5:2018 / ES 5072:2017 / ISO 13253:2017 at operating conditions :**
35°C Outdoor Temperature. 27/19°C db/wb Indoor Temperature. High Air Flow 380 volts power supply

* **Systems work in cooling at high ambient temperature up to 52°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. High Air Flow 380 volts power supply

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