Carrier

Miraco
MISR REFRIGERATION & AIR CONDITIONING MFG. CO.

Tropical

R410A

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

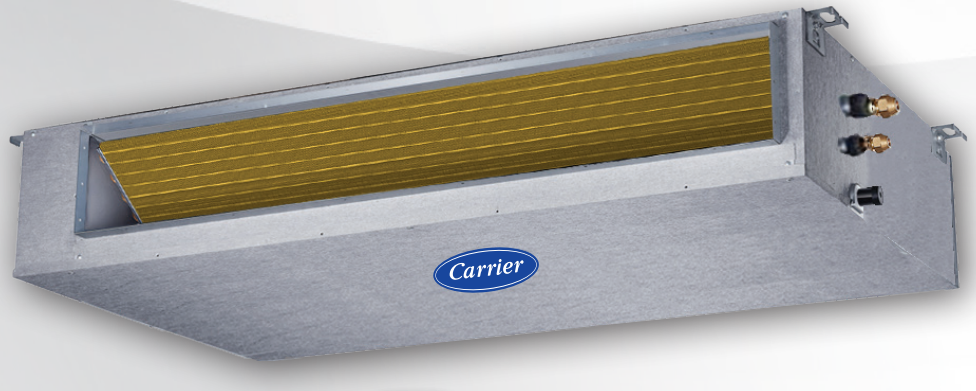
Puron
the environmentally sound refrigerant

EOS

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

Ducted Split Systems

ClassiCOOL Pro

R410A

Heat Pump

Tropical

SMART CONTROLS

Room Wired Controller

Wireless Remote Control

EFFICIENT, TROPICAL & QUIET

OUTDOOR UNITS

12K - 18K - 24K

30K - 36K

48K - 60K

EOS

Miraco
QMS ISO 9001 : 2015
Quality Management System
certification
Certified By DNV.GL
Certificate Number :
197044-2016-AQ-EGY-UKAS

Miraco
BS OHSAS 18001 : 2007
Occupational Health and Safety Management System
certification
Certified By TUV
Certificate Number :
12 116 30334 TMS

Miraco
ISO 14001 : 2015
Environmental Management System
certification
Certified By TUV
Certificate Number :
12 104 30334 TMS

Miraco
ISO/IEC 17025 : 2017
Testing Laboratories
certification
Accredited By EGAC/ilac-MRA
Certificate Number :
20523A

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 aluminim 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 prefect 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.

Smart Link

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

Smart Link

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 prefect adhesion of highly resistant ployester 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 happenes 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.

Key Features

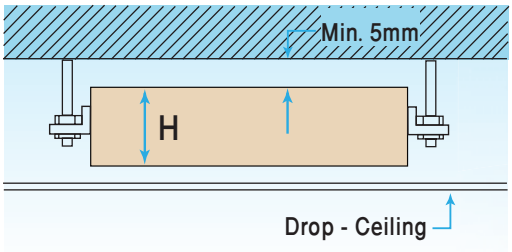
Easy, Fast and Flexible Installation

Slim

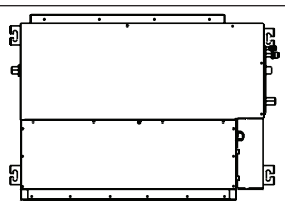
Due to slim low height, compact dimensions and light weight of ducted Indoor units, the installation of ducted indoor unit on the ceiling is faster and extremely easy.

Slim Low Height
Compact Dimensions & Light Weight

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



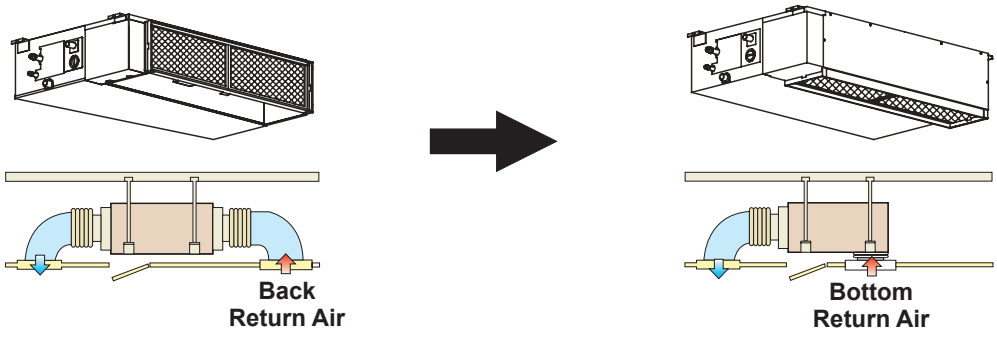
Indoor unit is equipped with flange connections for both supply and return air ducts to facilitate ducts installation works. Mounting holes and slots are predrilled to save installation time and field labor expense.



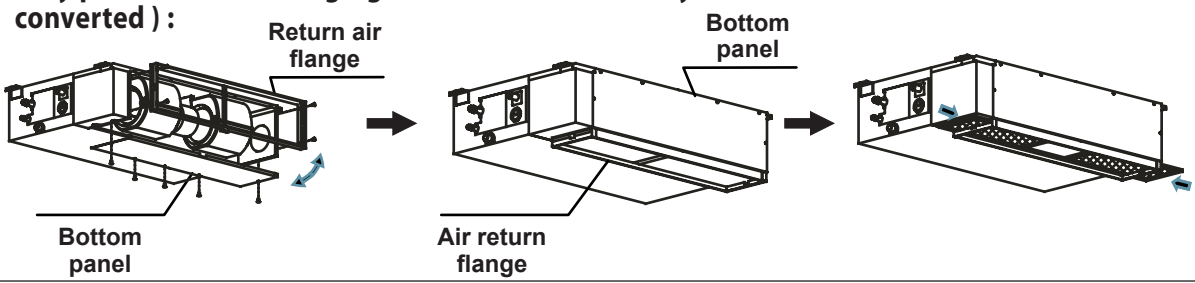
- **Flexible two directions of air return :**

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

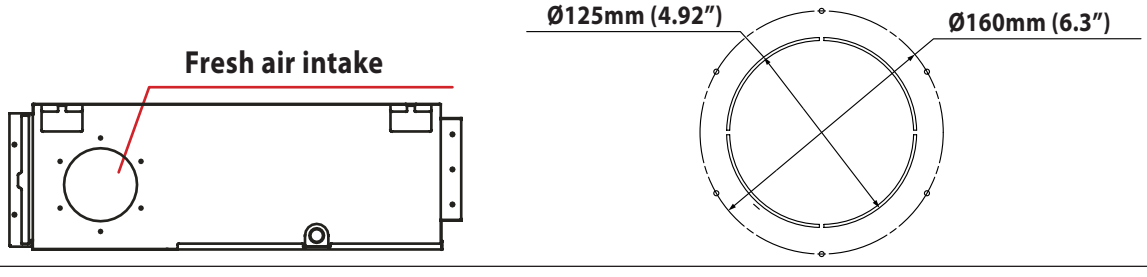
  Back air return (factory standard) **Bottom air return (can be converted at field).**



- **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.



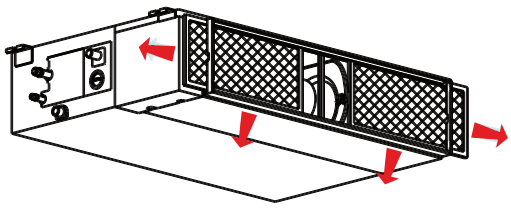
Key Features

Easy, Fast Service and Maintenance

Easy removal of washable aluminum air filters for cleaning.

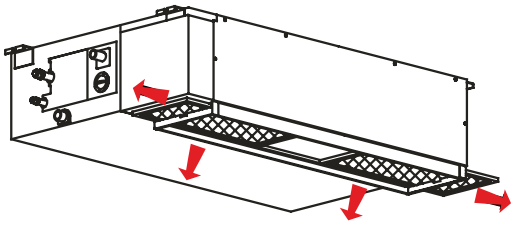
Air filter removal from Right, left or from bottom

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



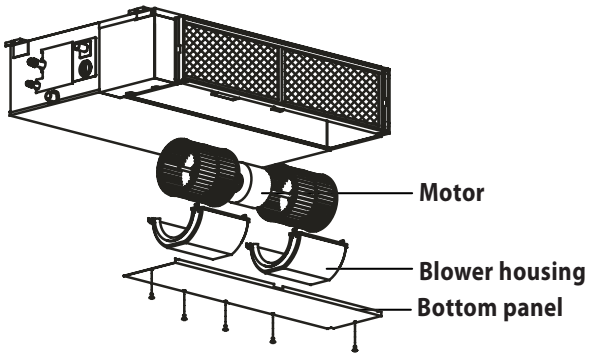
Back return air
(factory standard)

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.



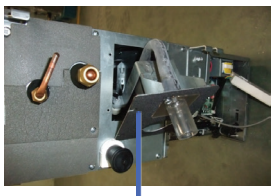
Easy removal of sensors of ducted indoor unit

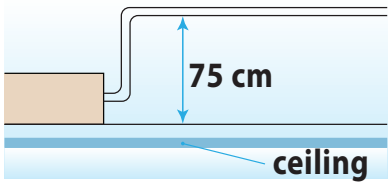
Ducted indoor unit has big space at side for service and maintenance.
which leads to easy removal of indoor coil sensor and return air sensor for checking and repair.

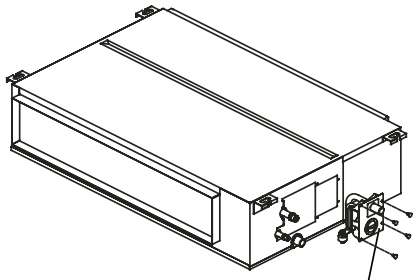
Key Features

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.

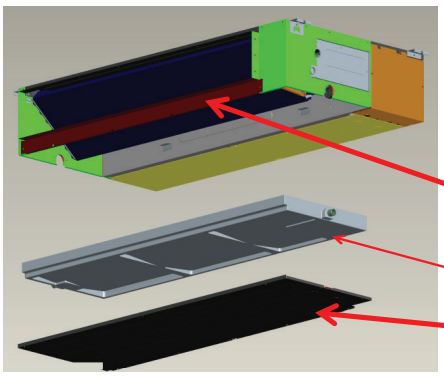






Easy cleaning of drain pan and indoor coil

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

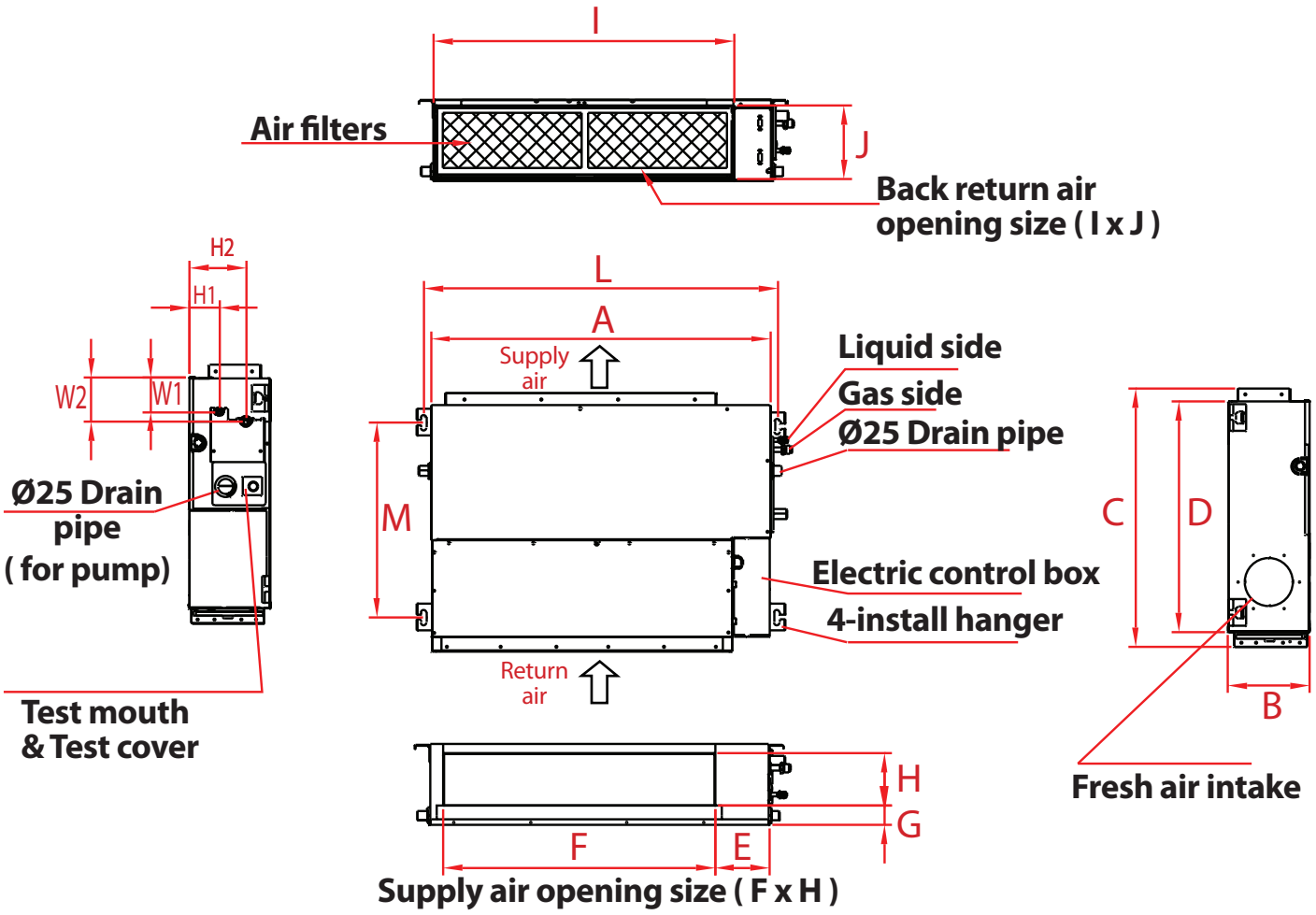


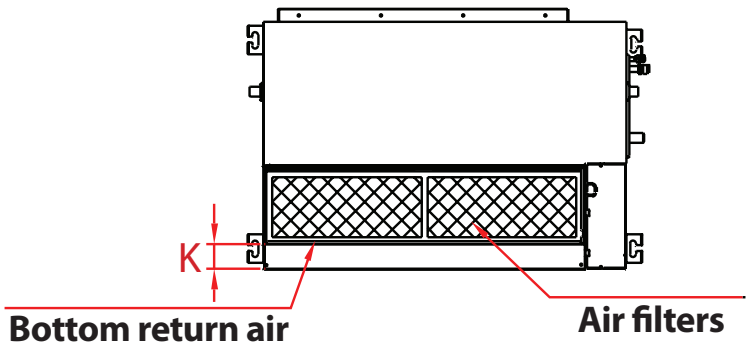
- **Ducted indoor unit has large window design which leads to easy cleaning of drain pan and indoor coil after removing motor and blower wheels because drain pan and indoor coil can be seen very clearly.**

Dust can be easily removed from the inside by vacuum.

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

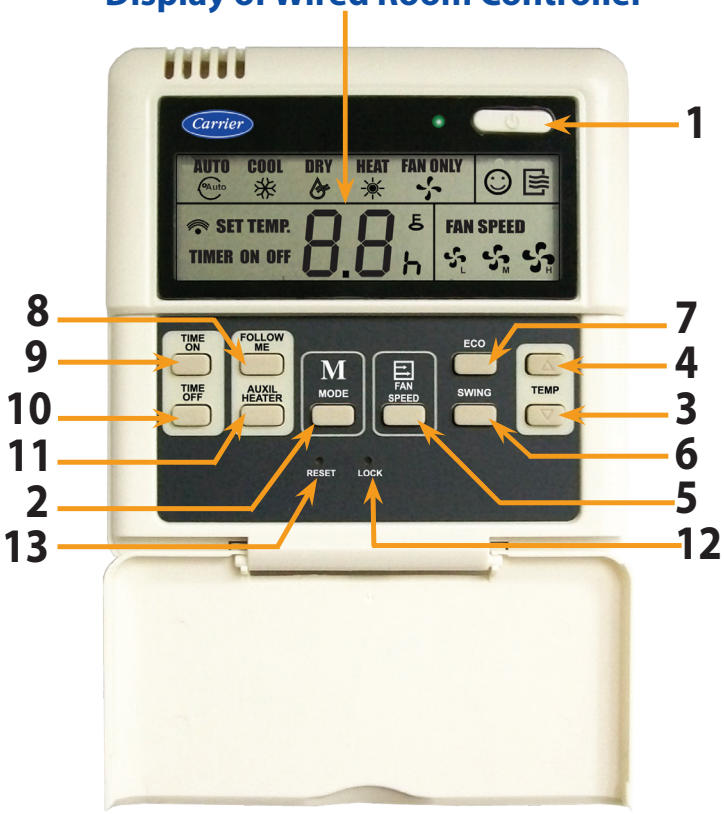
Indoor Unit Model	Weight Kg	Indoor Unit Dimensions				Supply Air Openinig Dimensions				Return Air Openinig Dimensions					Piping Location Dimensions			
		A	B	C	D	E	F	G	H	I	J	K	L	M	H1	H2	W1	W2
42QDMT12N-718A6	24	880	210	675	600	140	706	50	136	782	190	40	920	508	78	148	88	112
42QDMT18N-718A6																		
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																		





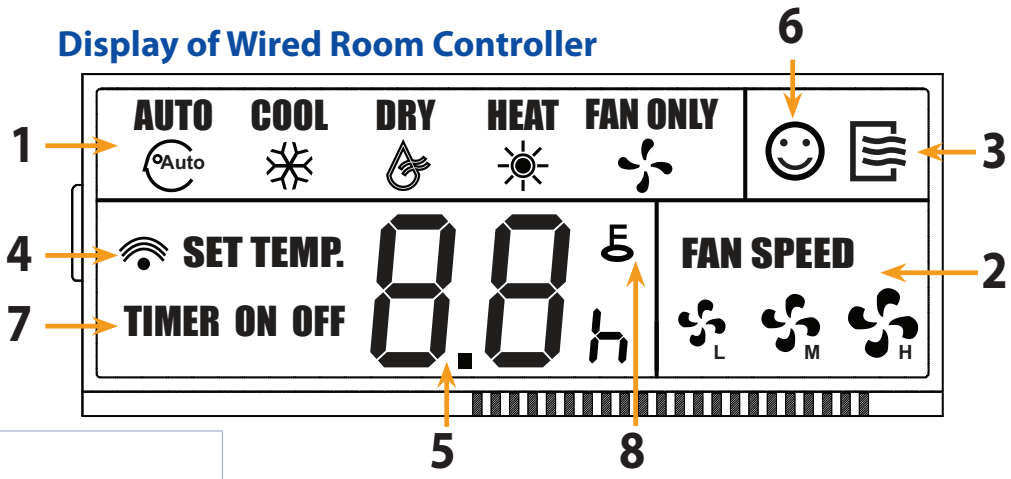
Room Wired Controller

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

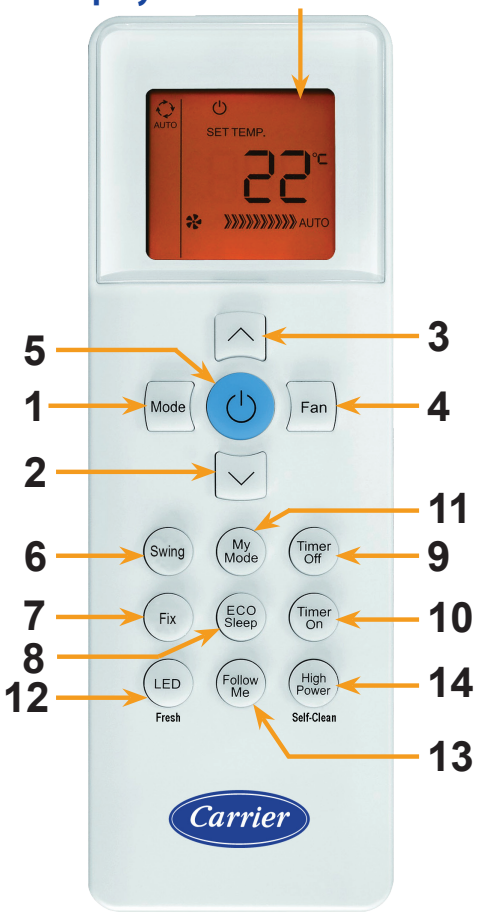


1	MODE indicator
AUTO	AUTO Mode indicator
COOL	COOL Mode indicator
DRY	DRY Mode indicator
HEAT	HEAT Mode indicator
FAN ONLY	FAN Mode indicator
2	FAN SPEED indicator
L	Low Fan Speed indicator
M	Medium Fan Speed indicator
H	High Fan Speed indicator
	Auto Fan Speed indicator

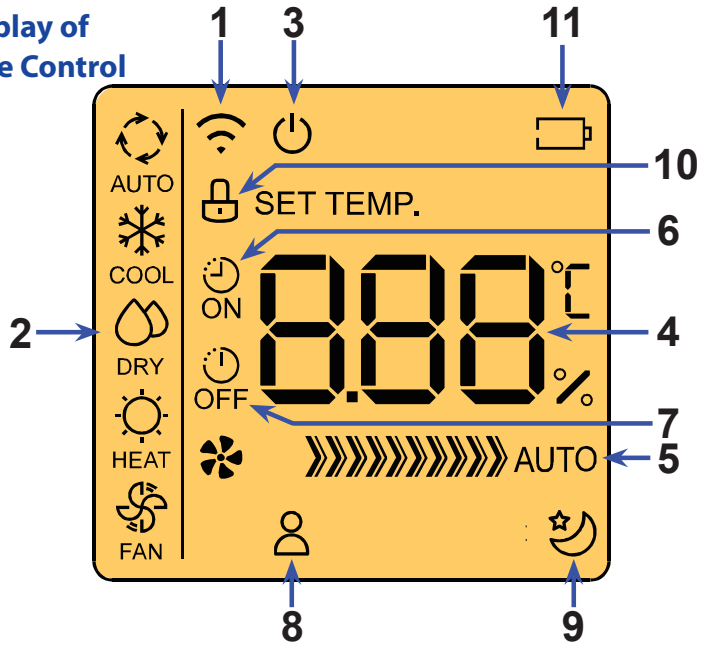
3	ON / OFF indicator
4	Signal transmission indicator
5	Temperature setting indicator (Room temperature in case of use Follow Me Function)
6	ECO function indicator
7	TIMER ON or TIMER OFF function indicator
8	LOCK function indicator

Wireless Remote Control

Display of Selected Functions



Display of Remote Control



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

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**

Air Flow Versus External Static Pressure

42QDMT12N-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
		m³/h	m³/h	m³/h	m³/h	m³/h
High Speed		623	551	481	383	253
		1058	936	817	651	430
Medium Speed		545	491	429	293	179
		926	834	729	498	304
Low Speed		480	425	362	280	105
		816	722	615	476	178

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
		m³/h	m³/h	m³/h	m³/h	m³/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
		m³/h	m³/h	m³/h	m³/h	m³/h	m³/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
		m³/h	m³/h	m³/h	m³/h	m³/h	m³/h	m³/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
		m^3/h	m^3/h	m^3/h	m^3/h	m^3/h	m^3/h	m^3/h	m^3/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

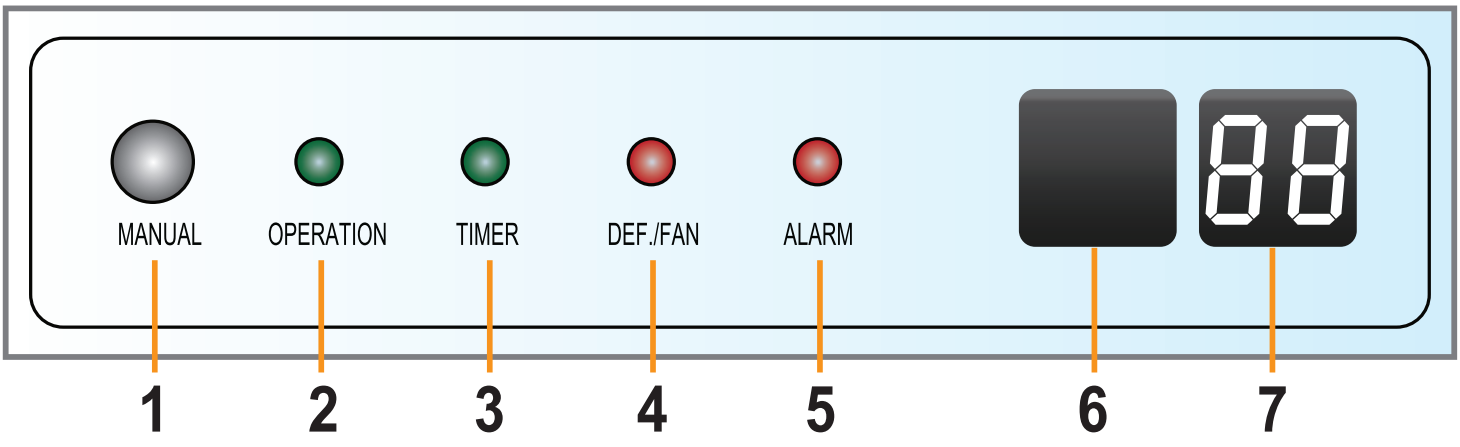
42QDMT48N-718A6

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
		m^3/h	m^3/h	m^3/h	m^3/h	m^3/h	m^3/h	m^3/h	m^3/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

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
		m^3/h	m^3/h	m^3/h	m^3/h	m^3/h	m^3/h	m^3/h	m^3/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

Display Panel

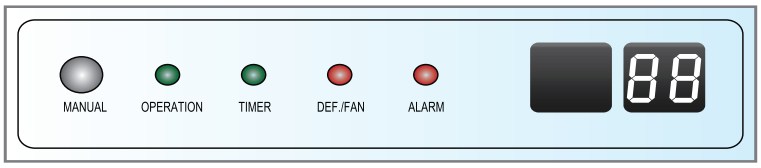


1	**MANUAL Button** * This button is used to operate the unit temporarily during maintenance/repair operations. * Once you push temporary button, the air conditioner will run in such order: Auto, Forced cool, off and back to Auto **AUTO** The OPERATION lamp is lit, and the air conditioner will run under 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

ClassiCOOL Pro

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	12200	18000	24200
		kW	3.58	5.28	7.09
Input power - Cooling	(@ 25 Pascal)	W	1162	1765	2303
Input current - Cooling	(@ 25 Pascal)	A	5.32	8.20	10.62
E.E.R. – Cooling	(@ 25 Pascal)	Btu/wh	10.5	10.20	10.51
		W/W	3.08	2.99	3.08
Energy Efficiency Level (according to EOS testing)			D	E	D
Heating capacity	(@ 25 Pascal)	Btu/hr	11700	18000	23000
		kW	3.43	5.28	6.74
Input power - Heating	(@ 25 Pascal)	W	1024	1541	1867
Input current - Heating	(@ 25 Pascal)	A	4.66	7.12	8.62
C.O.P - Heating	(@ 25 Pascal)	W/W	3.35	3.43	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
		m^3/hr	934 / 832 / 720	1029 / 934 / 832	1468/ 1222 / 1048
External static pressure range		in.wg	0 ~ 0.40	0 ~ 0.40	0 ~ 0.50
		Pa	0 ~ 100	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	31	39	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		mm^2 (Qty)	3 mm^2 (2 Wires +1 Earth)	4 mm^2 (2 Wires +1 Earth)	4 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)	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 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

*** 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.

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	28750	35450
		kW	8.42	10.38
Input power - Cooling	(@ 37 Pascal)	W	2845	3376
Input current - Cooling	(@ 37 Pascal)	A	13.11	15.49
E.E.R. – Cooling	(@ 37 Pascal)	Btu/wh	10.1	10.5
		W/W	2.96	3.08
Energy Efficiency Level (according to EOS testing)			E	D
Heating capacity	(@ 37 Pascal)	Btu/hr	30014	34100
		kW	8.79	9.99
Input power - Heating	(@ 37 Pascal)	W	2556	2747
Input current - Heating	(@ 37 Pascal)	A	11.88	12.58
C.O.P - Heating	(@ 37 Pascal)	W/W	3.44	3.63
Indoor unit model			42QDMT30N-718A6	42QDMT36N-718A6
Nominal air flow (high / med / low)	(@ 37 Pascal)	cfm	987 / 844 / 736	1347 / 1210 / 1040
		m^3/hr	1673 / 1431 / 1248	2283 / 2051 / 1763
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	69
System Installation Data				
Pipe connection sizes	(Gas x Liquid)	inch	3/4" 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		mm^2 (Qty)	6 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 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	53QDMT60N-518A6
Indoor unit model			42QDMT48N-718A6	42QDMT60N-718A6
Outdoor unit model			38QDMT48N-518A6	38QDMT60N-518A6
Power supply		V/ph/Hz	380 / 3 / 50	380 / 3 / 50
Cooling capacity	(@ 50 Pascal)	Btu/hr	44747	54050
		kW	13.11	15.84
Input power - Cooling	(@ 50 Pascal)	W	4458	5403
Input current - Cooling	(@ 50 Pascal)	A	7.39	9.08
E.E.R. – Cooling	(@ 50 Pascal)	Btu/wh	10.04	10.00
		W/W	2.94	2.93
Energy Efficiency Level (according to EOS testing)			E	E
Heating capacity	(@ 50 Pascal)	Btu/hr	44264	51000
		kW	12.97	14.94
Input power - Heating	(@ 50 Pascal)	W	3591	4389
Input current - Heating	(@ 50 Pascal)	A	6.11	7.71
C.O.P - Heating	(@ 50 Pascal)	W/W	3.61	3.4
Indoor unit model			42QDMT48N-718A6	42QDMT60N-718A6
Nominal air flow (high / med / low)	(@ 50 Pascal)	cfm	1523 / 1327 / 1200	1523 / 1327 / 1200
		m^3/hr	2581 / 2249 / 2034	2581 / 2249 / 2034
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	38QDMT60N-518A6
Tropical compressor type			Scroll	Scroll
Refrigerant type / Coupler type			R410A / Flare	R410A / Flare
Net Dimensions (W×H×D)		mm	860 x 1150 x 350	860 x 1150 x 350
Sound pressure		dB(A)	68	69
Net Weight		kg	92	100
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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2 (Two) Years Full Warranty from customer receipt date against manufacturing defects Free Spare Parts in the following 3 (Three) Years in case of repair

5 (Five) Years After Sales Service

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For Customers & Service & Sales