



United Technologies
turn to the experts

Miraco
MISR REFRIGERATION & AIR CONDITIONING MFG. CO.

Tropical

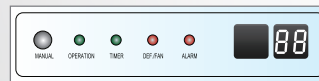


220V ~ 50Hz 1Ph (12K ~ 42K)
380V ~ 50Hz 3Ph (48K ~ 60K)

ClassiCOOL

Slim Line

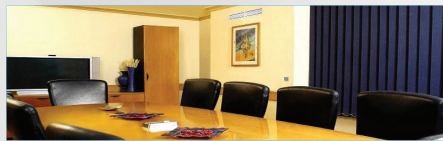
Compact Ceiling Concealed Ducted Split Systems



Heat Pump

53QDMT - A6 Series

12K - 18K - 24K - 30K - 36K - 42K - 48K - 60K



- | | | | | | |
|--------------------------------------|-----------------------------------|---------------------------|------------------------------|--------------------------|---------------------------------|
| Slim Compact Design | Tropical Compressor | Hydrophilic Aluminum Fins | Auto Mode | 3 Minutes Time Delay | Self diagnostic function |
| Efficient Operation | 40~100 Pa Medium Static Pressures | Super Quiet | Independent Dehumidification | Anti-Freezing Protection | Refrigerant Leak Detection |
| Efficient Anti-dust Aluminum Filters | Efficient Fans | Wired Control | ECO Sleep Function | High Temp. Protection | Durability |
| Fresh Air (Option) | Efficient Coils | Wireless Control | Timer Functions | Cold Draft Protection | Optional Drain Pump |
| Display Panel | Inner Groove Copper Tubing | Auto Fan Speed | Auto Restart Function | Defrost Protection | Easy Installation & Maintenance |



SMART CONTROLS



Wired room controller



Wireless Remote control

EFFICIENT, TROPICAL & QUIET



OUTDOOR UNIT



12K - 18K - 24K



30K - 36K - 42K



48K - 60K

Miraco

Testing Laboratories
ISO/IEC 17025:2005
Accredited By
EGAC/ilac-MRA
Certificate No :
20523A

Miraco

Quality Management System
QMS ISO 9001 : 2015
Certified By DNV.GL
Certificate No :
197044-2016-AQ-EGY-UKAS

Miraco

Occupational Health and Safety Management System
BS OHSAS 18001 : 2007

Certified By TUV
Certificate No :
12 116 30334 TMS

Miraco

Environmental Management System
ISO 14001 : 2004

Certified By TUV
Certificate No :
12 104 30334 TMS

ClassiCOOL medium static pressure, slim line, compact dimensions ceiling concealed ducted split is 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, 270 mm for size 36K, 300 mm for sizes 42K-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

Patented 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 and of 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 Aluminum 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.



Key Features

Quiet with Minimum Sound Level

- Patented centrifugal blower, elephant ear propeller, new 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 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 just like the air conditioner is following wired controller.



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.



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.



Optional coated aluminum fins of outdoor coil for coastal applications to protect against corrosion.



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.



High temperature protection of indoor coil when the air conditioner is operating in heat mode.



Defrost protection 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 sensors mounted on both indoor and outdoor coils 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 and / or excessive current drawn by compressor motor.

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 30K – 36K – 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

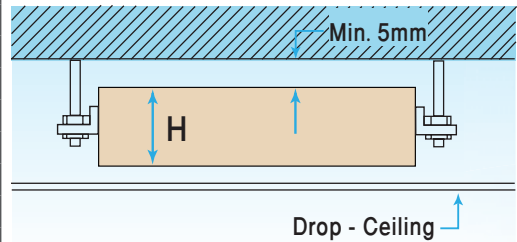


Due to slim low height, compact dimensions and light weight of ducted Indoor units, the installation of ducted indoor unit on the ceiling is faster and extremely easy.

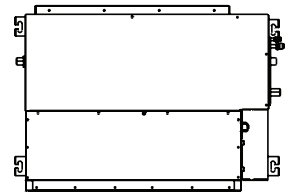


Slim Low Height Compact Dimensions & Light Weight

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
42K				
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.

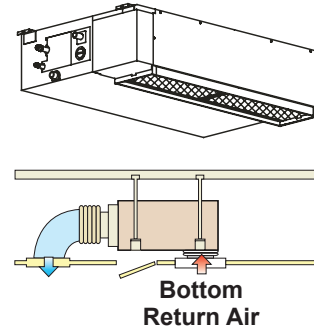
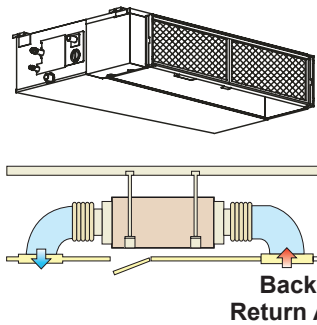


Flexible two directions of air return :

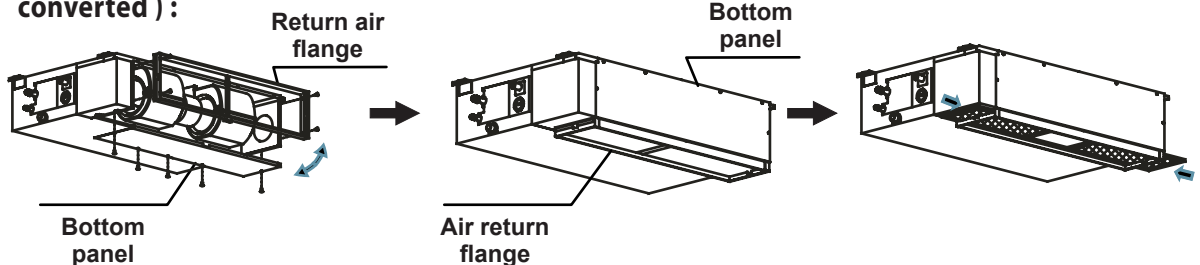
As per the installation requirements, air return can be from indoor unit back (factory standard) or from indoor unit bottom (field converted)

Back air return (factory standard)

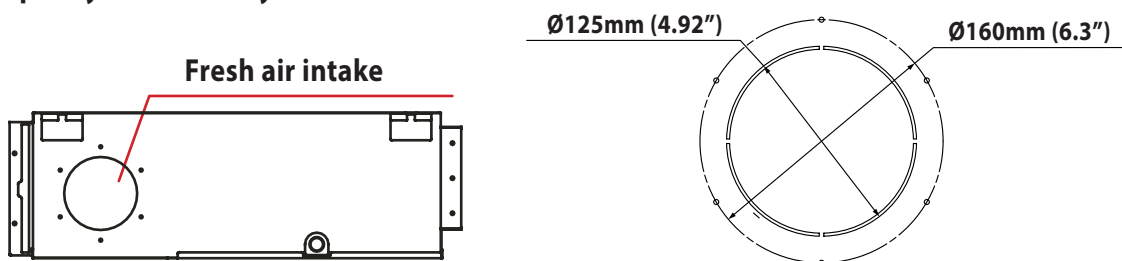
Bottom air return (can be converted at field).



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 from both sides to make air quality more healthy and more comfortable.



Key Features



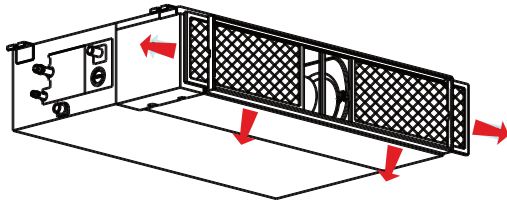
Easy, Fast Service and Maintenance



Easy removal of washable aluminum air filters for cleaning.

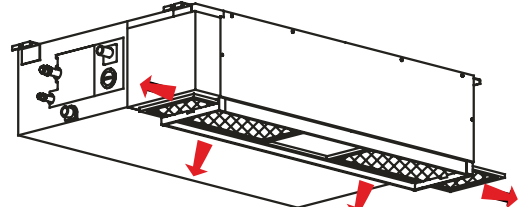
Air filter removal from Right, left or from bottom

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)

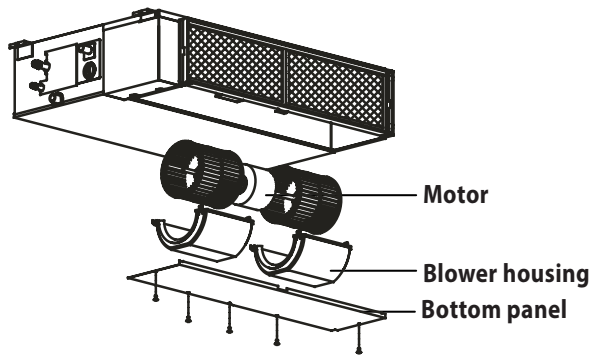
If the air filters are located in the bottom of indoor unit, remove air filters as shown in the figure.



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.

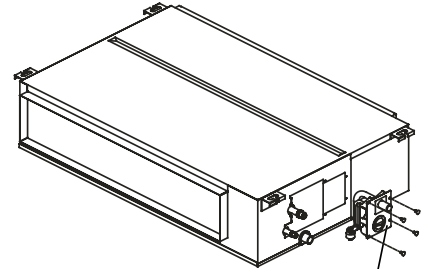
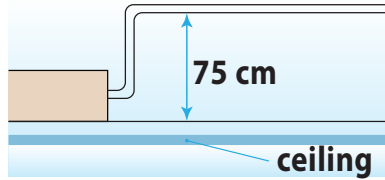
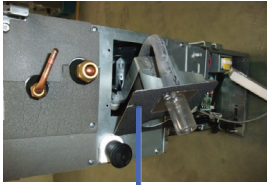




Easy, Fast Service and Maintenance



Optional drain pump which can lift the condensate water up to 75 cm upmost. Optional drain pump is factory installed upon request.

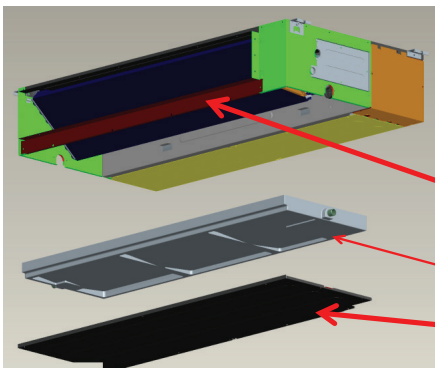


Pump Maintenance



Easy cleaning of drain pan and indoor coil

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



Flange

Drain Pan

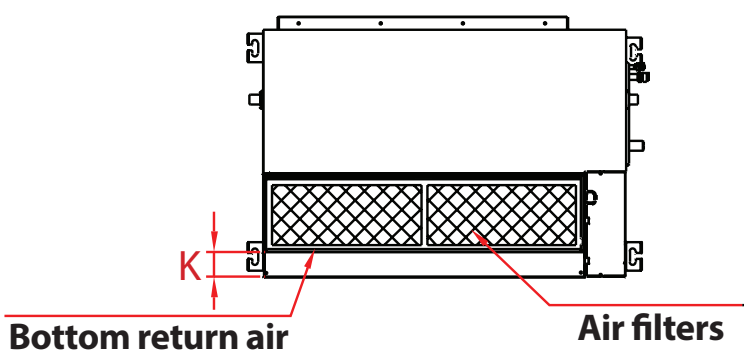
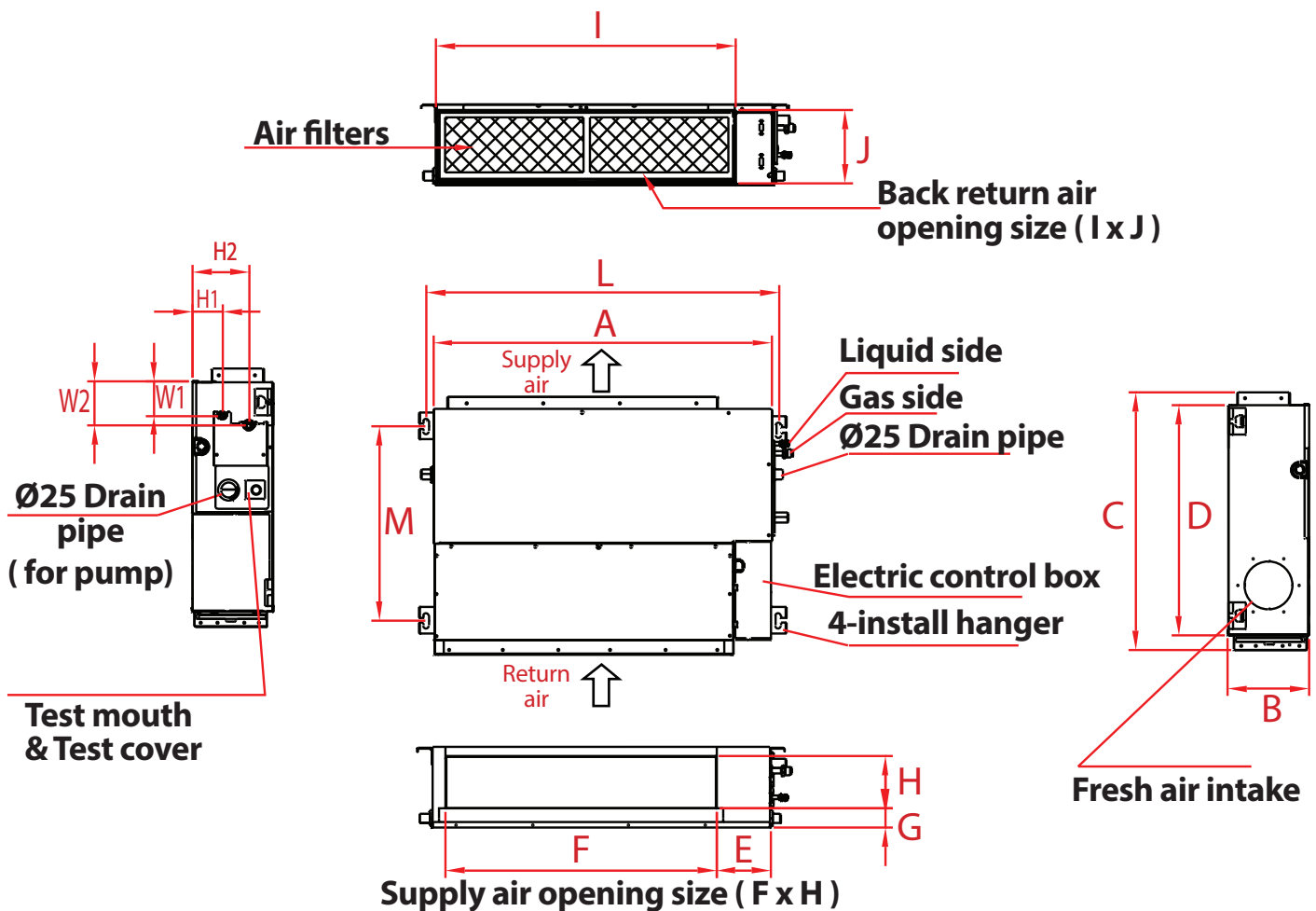
Front Panel

▪ 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.



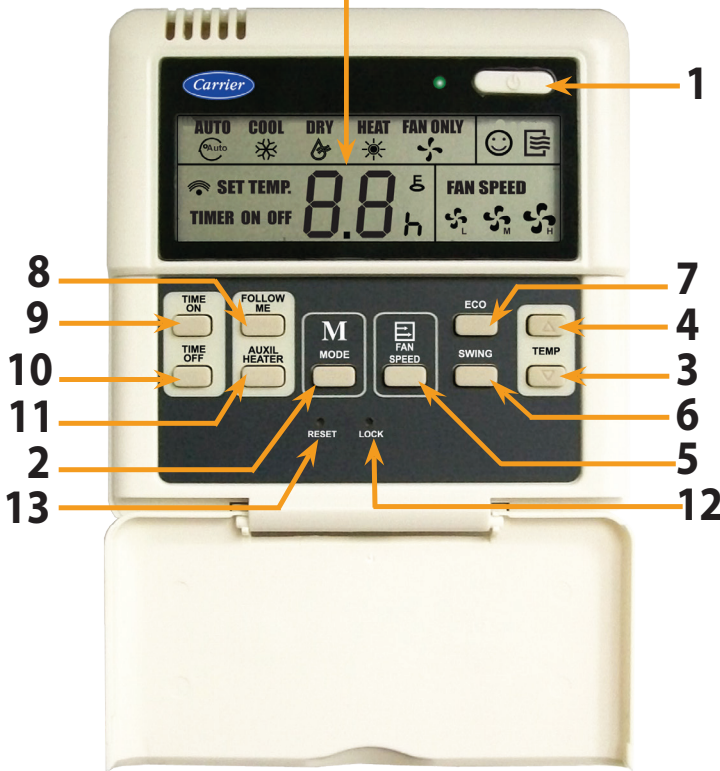
Ducted Indoor Unit Dimensions (mm) and Weights (Kg)

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
42QDMT12-718A6	24	880	210	675	600	140	706	50	136	782	190	40	920	508	78	148	88	112
42QDMT18-718A6																		
42QDMT24-718A6	33	1100	249	775	700	140	926	50	175	1001	228	5	1140	598	80	150	130	155
42QDMT30-718A6																		
42QDMT36-718A6	47	1200	300	875	800	123	1044	50	227	1101	280	5	1240	697	80	150	185	210
42QDMT42-718A6																		
42QDMT48-718A6																		
42QDMT60-718A6																		



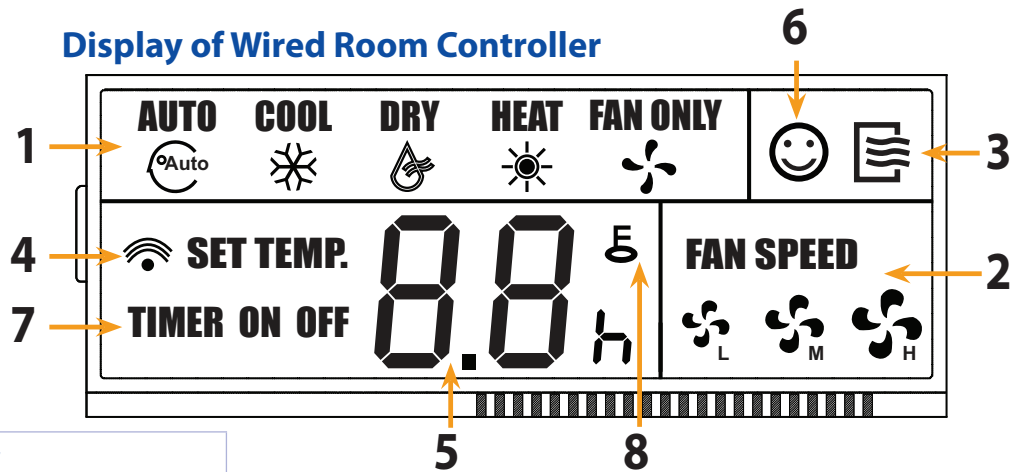
Wired Room Controller

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 unit but works with other indoor type)
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 unit but works with other indoor type)
12	LOCK function button
13	RESET function button

Display of Wired Room Controller

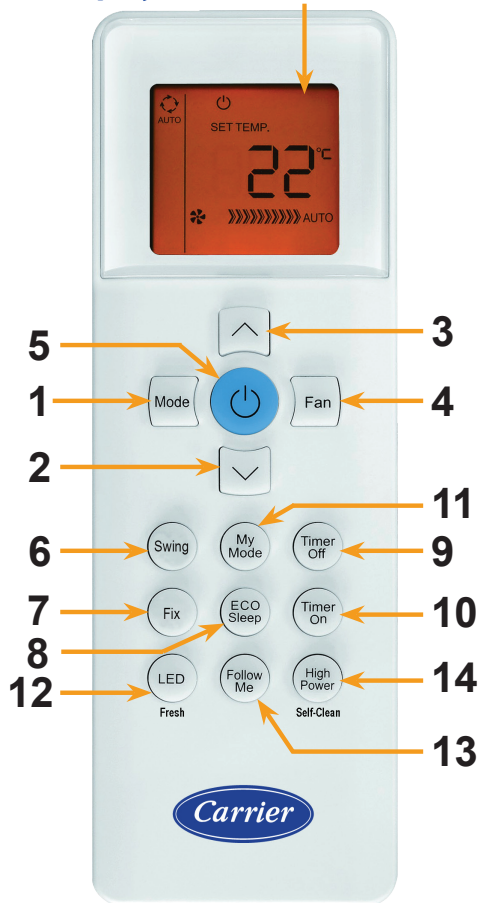


1	MODE indicator
AUTO Auto	AUTO Mode indicator
COOL ❄️	COOL Mode indicator
DRY 💧	DRY Mode indicator
HEAT ☀️	HEAT Mode indicator
FAN ONLY 🌀	FAN Mode indicator
2	FAN SPEED indicator
🌀 _L	Low Fan Speed indicator
🌀 _M	Medium Fan Speed indicator
🌀 _H	High Fan Speed indicator
	Auto Fan Speed indicator

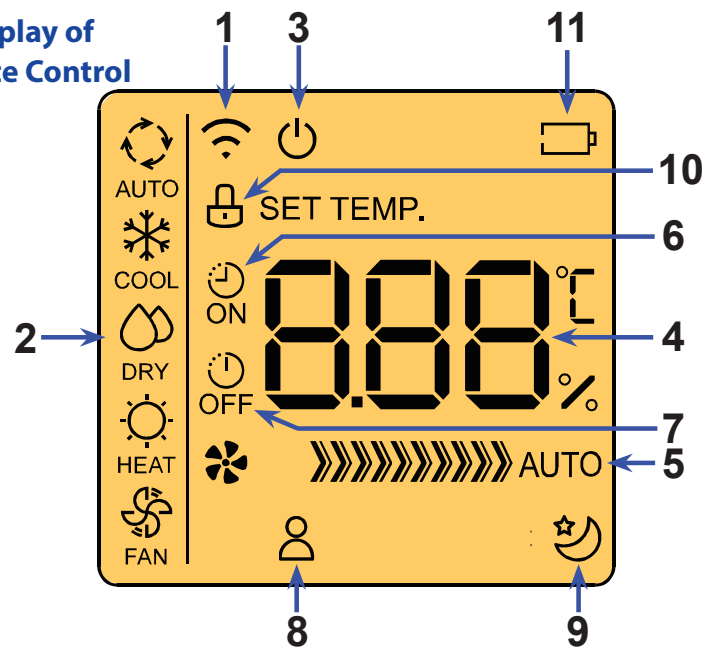
3	ON / OFF indicator
4	Signal transmission indicator
5	TEMP SET indicator
6	ECO function indicator
7	TIMER ON or TIMER OFF function indicator
8	LOCK function indicator

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	Vertical Air Flow Auto Swing * Press more 2 seconds the louver will swing up and down automatically
7	Vertical Air Flow Auto Swing * Press less 2 seconds the to change louver 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	LED Display function button
12	Fresh air function button *
13	Follow Me function button
14	TURBO High Power function button *
14	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
	Automatic
	Cooling
	Dehumidification only
	Heating
	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

42QDMT12-718-A6						
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	cfm
	m ³ /h	m ³ /h	m ³ /h	m ³ /h	m ³ /h	m ³ /h
High Speed	623	551	481	383	253	
	1056	934	815	649	429	
Medium Speed	545	491	429	293	179	
	924	832	727	497	303	
Low Speed	480	425	362	280	105	
	814	720	614	475	178	

42QDMT18-718-A6						
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	cfm
	m ³ /h	m ³ /h	m ³ /h	m ³ /h	m ³ /h	m ³ /h
High Speed	688	607	521	420	280	
	1166	1029	883	712	475	
Medium Speed	623	551	481	383	253	
	1056	934	815	649	429	
Low Speed	545	491	429	293	179	
	924	832	727	497	303	

42QDMT24-718-A6							
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	cfm
	m ³ /h	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	
	1481	1468	1415	1348	1265	1182	
Medium Speed	735	721	694	661	569	477	
	1246	1222	1176	1120	964	809	
Low Speed	638	618	591	555	473	391	
	1081	1048	1002	941	802	663	

42QDMT30-718-A6								
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	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	1087	1017	987	951	877	779	681	
	1842	1724	1673	1612	1486	1320	1154	
Medium Speed	936	873	844	815	755	678	601	
	1586	1480	1431	1381	1280	1149	1019	
Low Speed	817	758	736	707	648	578	508	
	1385	1285	1248	1198	1098	980	861	

Air Flow Versus External Static Pressure

42QDMT36-718-A6

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								
	m ³ /h								
High Speed		1464	1376	1347	1298	1135	1042	905	758
		2482	2332	2283	2200	1924	1766	1534	1285
Medium Speed		1290	1230	1210	1175	1035	930	850	670
		2187	2085	2051	1992	1754	1576	1441	1136
Low Speed		1140	1070	1040	990	885	780	645	522
		1932	1814	1763	1678	1500	1322	1093	885

42QDMT42-718-A6

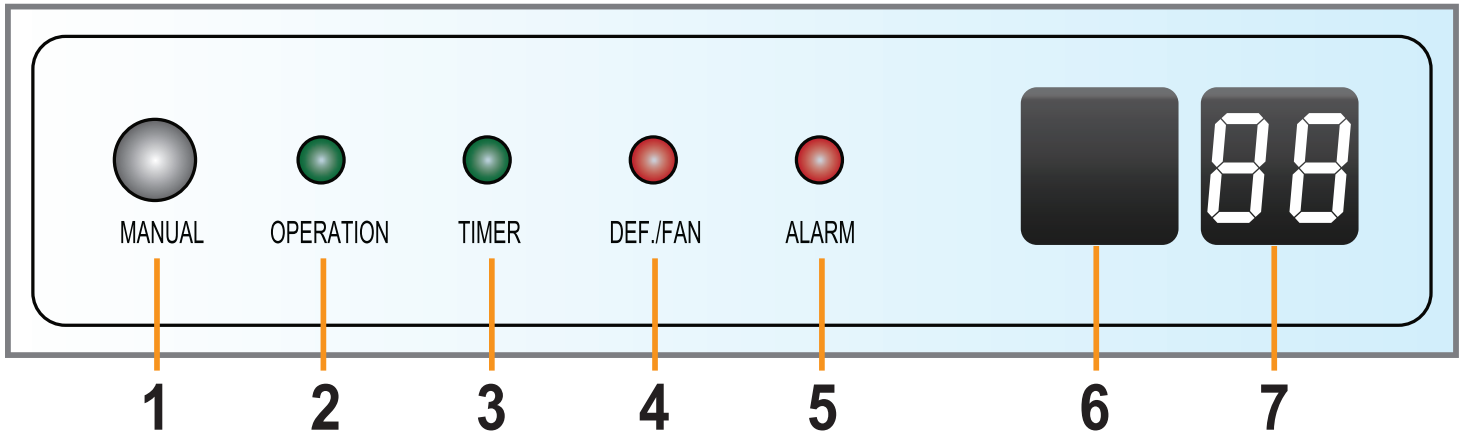
ESP	in.wg	0	0.10	0.15	0.20	0.30	0.40	0.50	0.60
	Pa	0	25	37	50	75	100	125	150
Air Flow	cfm								
	m ³ /h								
High Speed		1464	1376	1347	1298	1135	1042	905	758
		2482	2332	2283	2200	1924	1766	1534	1285
Medium Speed		1290	1230	1210	1175	1035	930	850	670
		2187	2085	2051	1992	1754	1576	1441	1136
Low Speed		1140	1070	1040	990	885	780	645	522
		1932	1814	1763	1678	1500	1322	1093	885

42QDMT48-718-A6

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								
	m ³ /h								
High Speed		1667	1593	1564	1523	1442	1346	1135	981
		2826	2700	2651	2582	2444	2282	1924	1663
Medium Speed		1468	1400	1363	1327	1251	1135	1045	872
		2488	2373	2310	2249	2120	1924	1771	1478
Low Speed		1297	1242	1218	1200	1078	961	830	703
		2198	2105	2065	2034	1827	1629	1407	1192

42QDMT60-718-A6

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								
	m ³ /h								
High Speed		1667	1593	1564	1523	1442	1346	1135	981
		2826	2700	2651	2582	2444	2282	1924	1663
Medium Speed		1468	1400	1363	1327	1251	1135	1045	872
		2488	2373	2310	2249	2120	1924	1771	1478
Low Speed		1297	1242	1218	1200	1078	961	830	703
		2198	2105	2065	2034	1827	1629	1407	1192



1 MANUAL Button

- * This button is used to operate the unit temporarily in case you misplace the remote control or its batteries are exhausted.
- * 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 Display Digital Tube

- * 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 Only with sizes 12 - 18 - 24 - 30 - 36 - 42K	F2	● 3 times	X	X	X
Indoor motor out of control	E3	⊙ 4 times	X	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

● = Light

⊙ = Flashing at 5HZ

X = OFF

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



PCB Leds of outdoor unit			
Malfunction Reason	LED 1	LED 2	LED 3
No malfunction	⊙	X	X
Phase loss or Phase reversal	⊙	X	X
Over-Current	X	X	X
Communication error between indoor & outdoor units	⊙	X	⊙
Open or short circuit of outdoor coil temperature sensor T3	X	⊙	⊙
Open or short circuit of outdoor ambient temperature sensor T4	X	⊙	X
Standby	⊙	⊙	⊙

⊙ = Flashing

X = OFF

System type		Heat pump	Heat pump	Heat pump
System model		53QDMT12-718A6	53QDMT18-718A6	53QDMT24-718A6
Indoor unit model		42QDMT12-718A6	42QDMT18-718A6	42QDMT24-718A6
Outdoor unit model		38QDMT12-718A6	38QDMT18-718A6	38QDMT24-718A6
Power supply	V/ph/Hz	220 / 1 / 50	220 / 1 / 50	220 / 1 / 50
Cooling capacity (@ 25 Pascal)	Btu/hr	13500	19000	25300
	kW	3.96	5.57	7.42
Input power - Cooling (@ 25 Pascal)	W	1272	1898	2526
Input current - Cooling (@ 25 Pascal)	A	5.88	9.05	11.81
E.E.R. – Cooling (@ 25 Pascal)	Btu/wh	10.61	10.01	10.01
	W/W	3.11	2.93	2.94
Heating capacity (@ 25 Pascal)	Btu/hr	11300	18500	23000
	kW	3.31	5.24	6.74
Input power - Heating (@ 25 Pascal)	W	966	1668	2067
Input current - Heating (@ 25 Pascal)	A	4.49	7.92	9.78
C.O.P - Heating (@ 25 Pascal)	W/W	3.43	3.25	3.26
Indoor unit model		42QDMT12-718A6	42QDMT18-718A6	42QDMT24-718A6
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 x H x 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		38QDMT12-718-A6	38QDMT18-718-A6	38QDMT24-718-A6
Tropical compressor type		Rotary	Rotary	Rotary
Refrigerant type / Coupler type		R22 / Flare	R22 / Flare	R22 / Flare
Net Dimensions (WxHxD)	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
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	10	20	20
Maximum height difference	m	5	10	10
Drainage water pipe diam.	mm	OD Ø 25	OD Ø 25	OD Ø 25

* **Cooling Capacity, Dehumidification and Energy Efficiency Ratio (EER) based on ISO 13253 Standard at 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) are based on 13253 Standard at 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		53QDMT30-718A6	53QDMT36-718A6
Indoor unit model		42QDMT30-718A6	42QDMT36-718A6
Outdoor unit model		38QDMT30-718A6	38QDMT36-718A6
Power supply	V/ph/Hz	220 / 1 / 50	220 / 1 / 50
Cooling capacity (@ 37 Pascal)	Btu/hr	28500	34770
	kW	8.35	10.19
Input power - Cooling (@ 37 Pascal)	W	2697	3162
Input current - Cooling (@ 37 Pascal)	A	13.29	15.39
E.E.R. – Cooling (@ 37 Pascal)	Btu/wh	10.57	11.00
	W/W	3.10	3.22
Heating capacity (@ 37 Pascal)	Btu/hr	30000	32500
	kW	8.79	9.53
Input power - Heating (@ 37 Pascal)	W	2411	2416
Input current - Heating (@ 37 Pascal)	A	12.10	12.01
C.O.P - Heating (@ 37 Pascal)	W/W	3.65	3.94
Indoor unit model		42QDMT30-718A6	42QDMT36-718A6
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 x H x D)	mm	1100 x 249 x 775	1200 x 300 x 875
Net Weight	kg	33	47
Outdoor unit model		38QDMT30-718A6	38QDMT36-718A6
Tropical compressor type		Scroll	Scroll
Refrigerant type / Coupler type		R22 / Flare	R22 / Flare
Net Dimensions (WxHxD)	mm	945 x 810 x 400	945 x 810 x 400
Sound pressure	dB(A)	64	64
Net Weight	kg	65	65
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

* **Cooling Capacity, Dehumidification and Energy Efficiency Ratio (EER) based on 13253 Standard at conditions :**
35°C Outdoor Temperature. 27/19°C db/wb Indoor Temperature. High Air Flow

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20°C db Indoor Temperature 7/6°C db/wb Outdoor Temperature. High Air Flow

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Technical Specifications

System type		Heat pump	Heat pump	Heat pump
System model		53QDMT42-718A6	53QDMT48-718A6	53QDMT60-718A6
Indoor unit model		42QDMT42-718A6	42QDMT48-718A6	42QDMT60-718A6
Outdoor unit model		38QDMT42-718A6	38QDMT48-518A6	38QDMT60-518A6
Power supply	V/ph/Hz	220 / 1 / 50	380 / 3 / 50	380 / 3 / 50
Cooling capacity (@ 50 Pascal)	Btu/hr	38500	48250	53000
	kW	11.28	14.14	15.53
Input power - Cooling (@ 50 Pascal)	W	3610	4884	5700
Input current - Cooling (@ 50 Pascal)	A	17.65	8.58	9.80
E.E.R. – Cooling (@ 50 Pascal)	Btu/wh	10.66	9.88	9.30
	W/W	3.12	2.90	2.72
Heating capacity (@ 50 Pascal)	Btu/hr	37500	49000	53000
	kW	10.99	14.36	15.53
Input power - Heating (@ 50 Pascal)	W	2749	4360	5066
Input current - Heating (@ 50 Pascal)	A	14.04	7.87	8.76
C.O.P - Heating (@ 50 Pascal)	W/W	4.00	3.29	3.07
Indoor unit model		42QDMT42-718A6	42QDMT48-718A6	42QDMT60-718A6
Nominal air flow (high / med / low) (@ 50 Pascal)	cfm	1298 / 1175 / 990	1523 / 1327 / 1200	1523 / 1327 / 1200
	m ³ /hr	2200 / 1992 / 1678	2581 / 2249 / 2034	2581 / 2249 / 2034
External static pressure range	in.wg	0 ~ 0.60	0 ~ 0.60	0 ~ 0.60
	Pa	0 ~ 150	0 ~ 150	0 ~ 150
Sound Pressure (high / med / low) as per ISO 3745 standard	dB(A)	48.5 / 45 / 41	57.6 / 52.7 / 51.1	57.6 / 52.7 / 51.1
Net Dimensions (W x H x D)	mm	1200 x 300 x 875	1200 x 300 x 875	1200 x 300 x 875
Net Weight	kg	47	47	47
Outdoor unit model		38QDMT42-718A6	38QDMT48-518A6	38QDMT60-518A6
Tropical compressor type		Scroll	Scroll	Scroll
Refrigerant type / Coupler type		R22 / Flare	R22 / Flare	R22 / Flare
Net Dimensions (WxHxD)	mm	945 x 810 x 400	860 x 1150 x 350	860 x 1150 x 350
Sound pressure	dB(A)	65	68	69
Net Weight	kg	69	82	118
Pipe connection sizes (Gas x Liquid)	inch	3/4" x 3/8"	3/4" x 3/8"	3/4" x 3/8"
Maximum pipe length	m	25	30	30
Maximum height difference	m	10	15	15
Drainage water pipe diam.	mm	OD Ø 25	OD Ø 25	OD Ø 25

* **Cooling Capacity, Dehumidification and Energy Efficiency Ratio (EER) based on 13253 Standard at conditions :**
 35°C Outdoor Temperature. 27/19°C db/wb Indoor Temperature. High Air Flow

* **Systems work in cooling at high ambient temperature up to 52°C**

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