Catalog

M5MSX-2006

DC Inverter Wall Mounted

Models: M5MSX 020 AR

McQuay Air Conditioning

Engineered for flexibility and performance.™

Table of Contents

This manual supersede M5MSX-2005

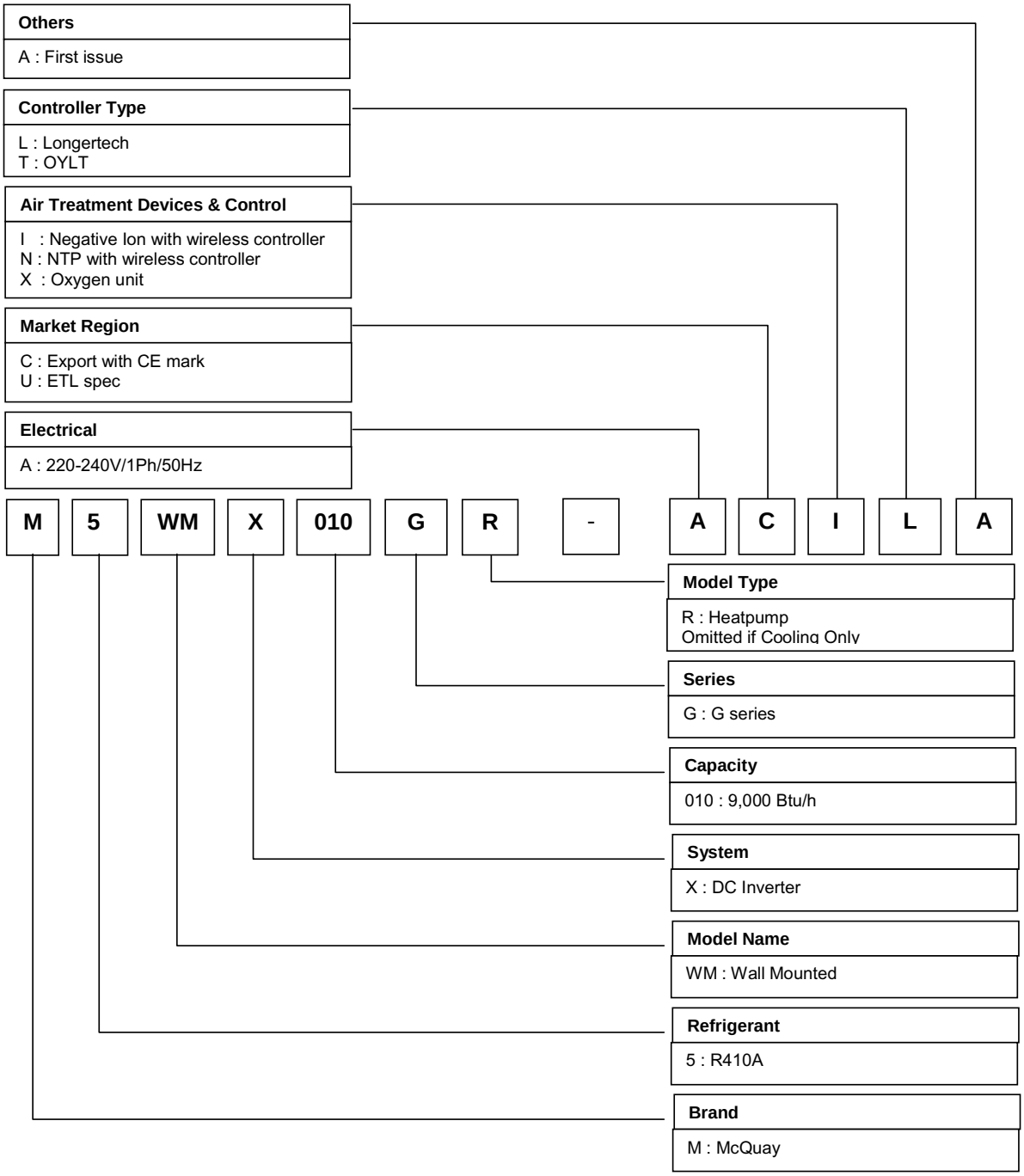
Note: Installation and maintenance are to be performed only by qualified personnel who are familiar with local codes and regulations, and experienced with this type of equipment.

Caution: Sharp edges and coil surfaces are a potential injury hazard. Avoid contact with them.

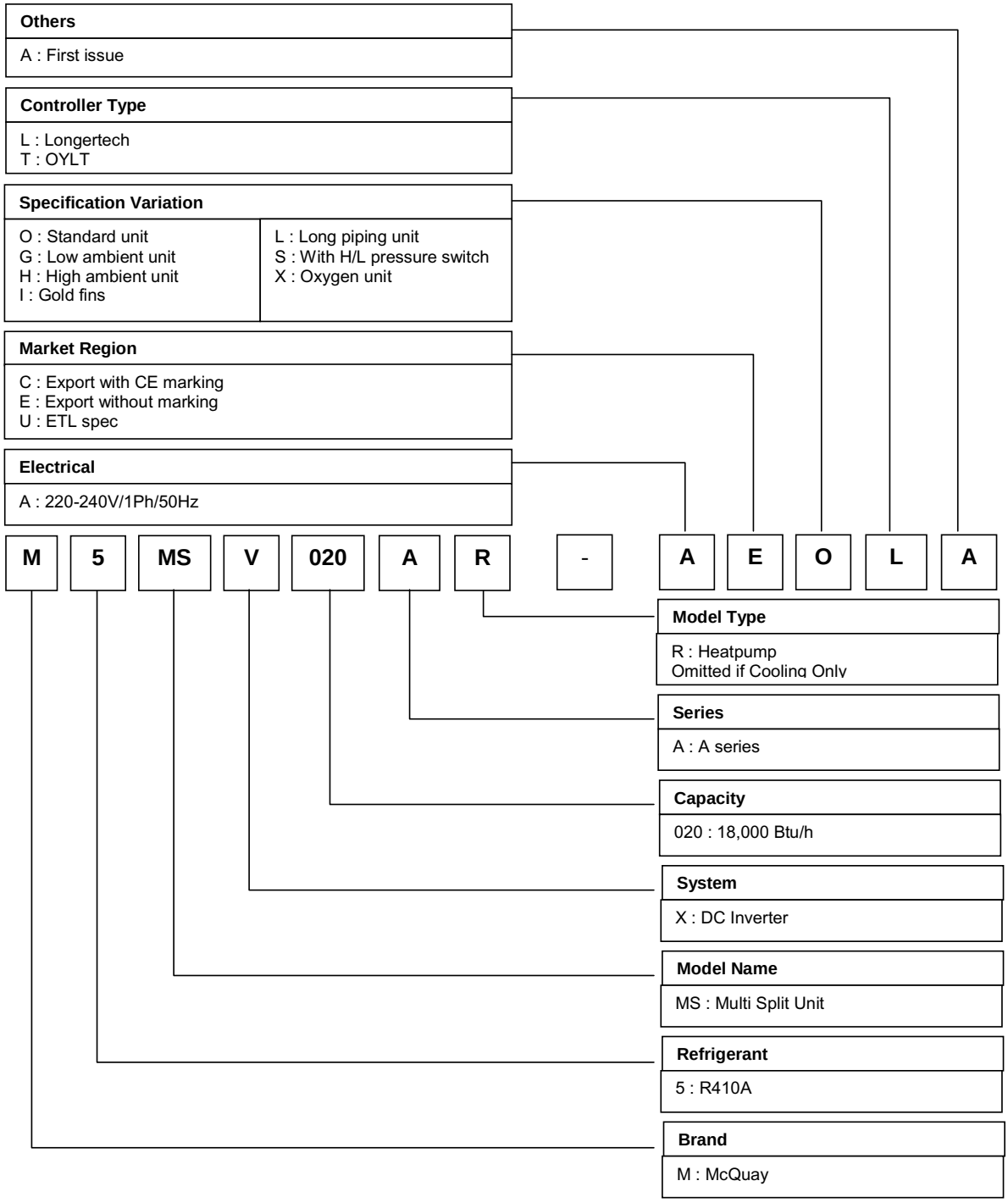
Warning: Moving machinery and electrical power hazards. May cause severe personal injuryor death. Disconnect and lock off power before servicing equipment.

Nomenclature

Indoor



Outdoor


Others
A : First issue
Controller Type
L : Longertech
T : OYLT
Specification Variation
O : Standard unit
G : Low ambient unit
H : High ambient unit
I : Gold fins
L : Long piping unit
S : With H/L pressure switch
X : Oxygen unit
Market Region
C : Export with CE marking
E : Export without marking
U : ETL spec
Electrical
A : 220-240V/1Ph/50Hz
M 5 MS V 020 A R - A E O L A
Model Type
R : Heatpump
Omitted if Cooling Only
Series
A : A series
Capacity
020 : 18,000 Btu/h
System
X : DC Inverter
Model Name
MS : Multi Split Unit
Refrigerant
5 : R410A
Brand
M : McQuay

M5WMX Product line-up

M5WMX		Nomenclature	Classification								
			Handset	Control Module	Air Purification					Auto Restart	Marking
			G12	LJID 1.0	Ionizer Filter	Negative Ion	Anti-Microbial Filter	Air Filter (Titanium Oxide)	Non-Thermal Plasma (NTP)	CE	
Heat Pump Model	010GR	ACILA	X	X	X	X	X	X		X	X
		ACNLA	X	X	X		X	X	X	X	X
	015GR	ACILA	X	X	X	X	X	X		X	X
		ACNLA	X	X	X		X	X	X	X	X

M5MSX Product line-up

M5MSX		Nomenclature	Classification			
			Refrigerant Control	Printed Circuit Board	Compressor	Marking
			Electronic Expansion Device	LJ-DSCAA	DC Inverter Scroll	CE
Heat Pump Model	020AR	ACOLA	X	X	X	X
		ACILA	X	X	X	X

Features

Higher Energy Savings

The compressor in McQuay DC Multi Split Inverter is programmed to run at the optimum speed. The compressor speed is controlled by input frequency that varies according to the indoor load requirements. Once the indoor set temperature is achieved, the input frequency supply to the compressor will be reduced. Hence, less energy is required to maintain the unit operation and this will consume less energy.

Fast Cooling

During the unit start up, the inverter air-conditioner system takes a shorter period to achieve the set room temperature than conventional air-conditioner systems. Thus, the inverter system offers fast cooling features.

Low Starting Current

Taking advantage of the ability to modulate the compressor speed, inverter models are designed with “soft starter” feature. The compressor motor will not draw high current during start up.

Zero-Ozone Depleting Potential Refrigerant

Introducing the new type of refrigerant – R410A which is environmental friendly with Zero Ozone Depletion Potential (ODP = 0). R410A also provides the higher volumetric capacity and better refrigerating effect per unit of volume.

Advance Technology

The traditional conventional air conditioners repeat “the start” and “the stop” during the thermostat cycle off and causes the room temperature to be unstable. Incorporating fuzzy logic control into the McQuay DC Multi Split Inverter design enables greater flexibility in handling the system control.
This result in:

- Powerful, efficient and economical operation.
- Even room temperature control.
- Constant and quiet compressor operation.
- Enhanced system reliability and reduced maintenance costs.

Low Noise Operation

McQuay DC Multi Split Inverter System has been designed to use the state-of-the-art, twin rotary compressor. In this compressor, the roller phases are staggered 180° apart from each other. With this design, the centrifugal forces of one roller is counterbalanced by the force of the other roller, whereby reducing the vibration of the compressor. This makes the unit quieter and less vibration.
To further reduce the noise level, brushless DC motor is used. This further reduces noise generated by the fan motor. Additionally, by using a bigger sized fan blade, a lower rpm is possible while maintaining ample airflow.

Improved Compressor Life Span

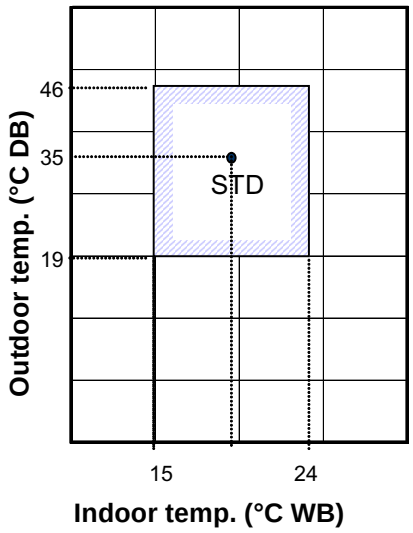
For the McQuay DC Multi Split Inverter system, once the unit is started, the compressor rotation speed is steadily ramp up or down based on load requirement throughout the operation. This control method gives the compressor motor a smooth operation. It helps to reduce the wear and tear of the compressor motor. In the long run, the life span of compressor is increased.

Application Information

Operating Range

Ensure the operating temperature is in allowable range

Cooling only

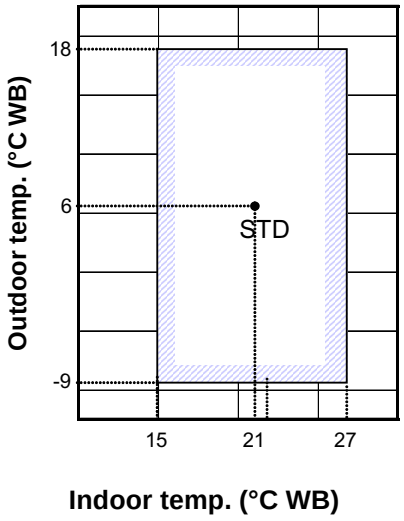


Cautions:

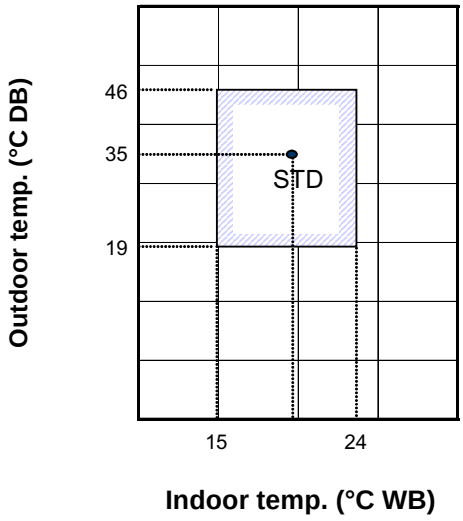
The use of your air conditioner outside the range of working temperature and humidity can result in serious failure.

Heat pump

Heating

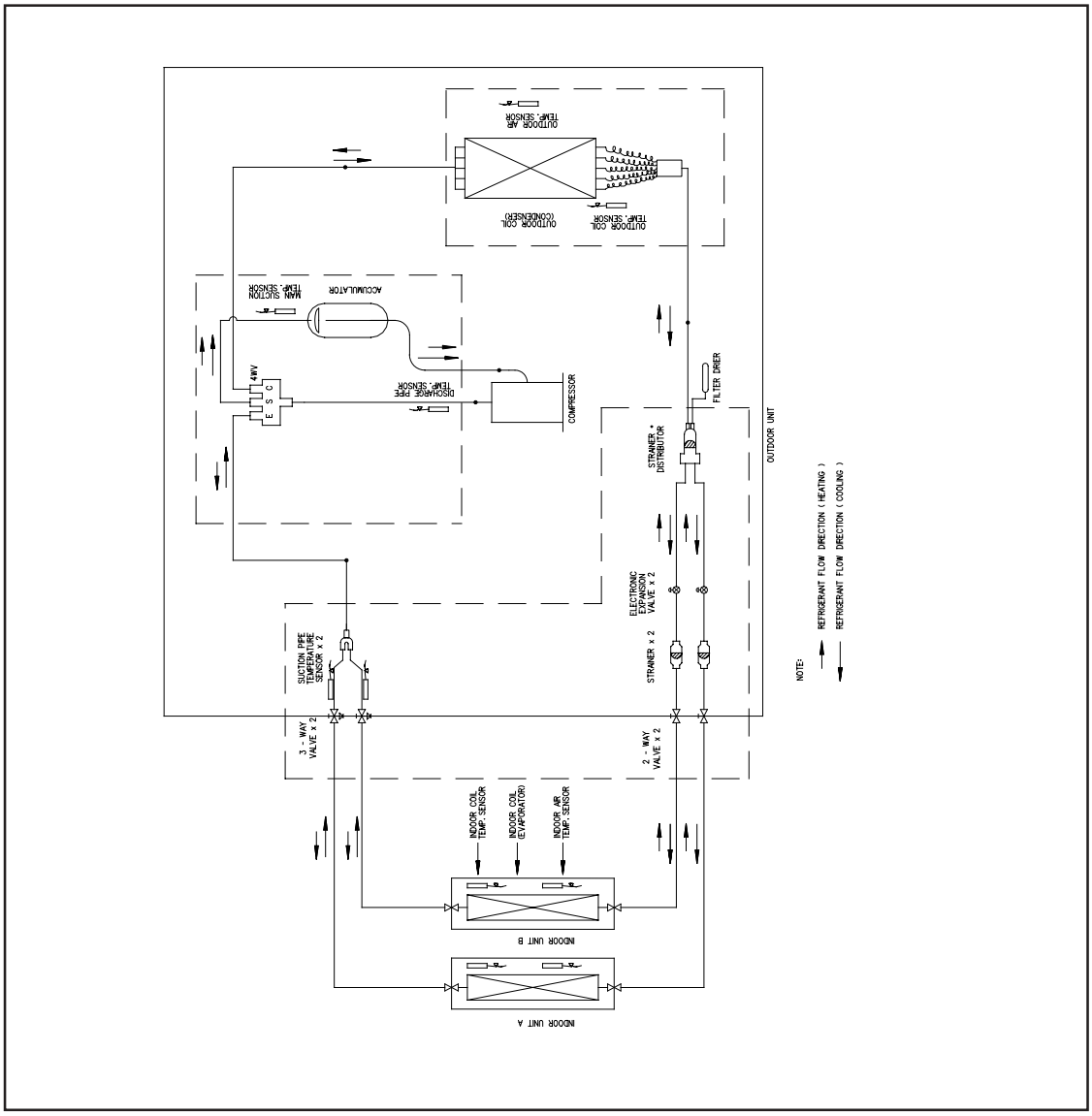


Cooling



Refrigerant Circuit Diagrams

Model : M5WMX 010GR / 015GR c/w M5MSX 020AR



Controllers

G11 Remote Controller

Temperature Setting

- To set the desired room temperature, press the button to increase or decrease the set temperature.
- The temperature setting range is from 16°C to 30°C
- Press both buttons simultaneously to toggle the temperature setting between °C and °F

Turbo Mode

- Press the TURBO button to achieve the required set temperature in a short time.

Sleep Mode

- Press the button to activate sleep mode. This function is available under COOL, HEAT & AUTO mode.
- When it is activated in COOL mode, the set temperature will be increased 0.5°C after 30mins, 1°C after 1 hour and 2°C after 2 hours.
- When it is activated in HEAT mode, the set temperature will be decreased 1°C after 30mins, 2°C after 1 hour and 3°C after 2 hours.

ON Timer Setting

- Press the SET button will activate the on timer function.
- Set the desired on time by pressing the SET button continuously.
- Press the CLR button to cancel the off timer setting

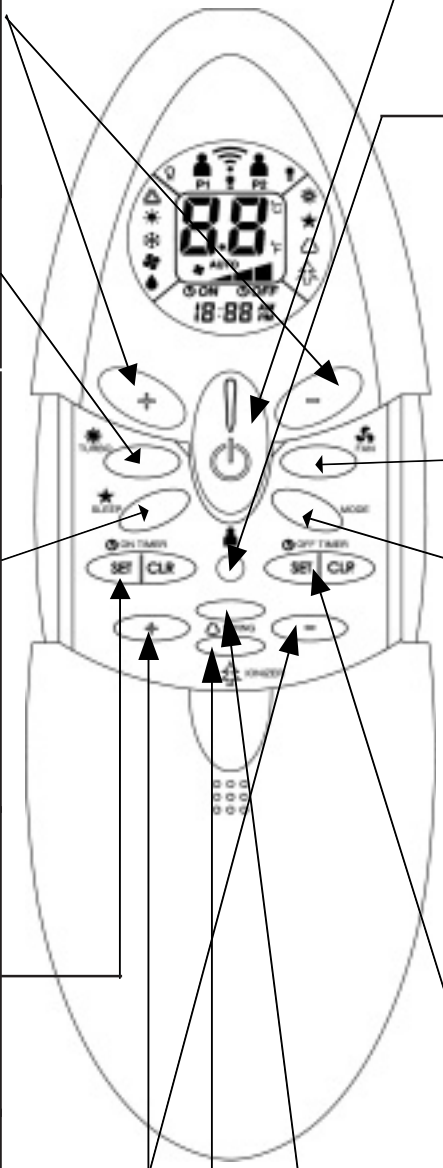
Clock Time Setting

- Press button + or - to increase or decrease the clock time.

Ionizer

- Press the button to activate the negative Ion function, which will refresh the indoor air effectively.

* Depends on Specifications



On/Off Button

- Press Once to start the air conditioner
- Press again to stop the unit

Personalised Setting

- Press and hold the button for 3s to initiate personalized setting.
- Set the individual setting e.g. MODE, SET TEMP or FAN SPEED and leave for 4s to save
- 2 groups of settings are allowed to stored in the handset

Fan Speed Selection

- Press the button until the desired fan speed is achieved.

Operating Mode

- Press the MODE button to select the type of operating mode.
- For Cooling only unit, the available modes are: COOL, DRY & FAN.
- For Heatpump unit, the available modes are: AUTO, COOL, DRY, FAN & HEAT.

OFF Timer Setting

- Press the SET button will activate the off timer function.
- Set the desired off time by pressing the SET button continuously.
- Press the CLR button to cancel the off timer setting

Automatic Air Awing

- Press the SWING button to activate the automatic air swing function.
- To distribute the air to a specific direction, press the SWING button and wait until the louver move to the desired direction and press the button once again.

Physical Data

General Data

MODEL		OUTDOOR UNIT			M5MSX020AR	
		INDOOR UNIT			M5WMX010GR	M5WMX015GR
NOMINAL COOLING CAPACITY				Btu/h	19000 (4500 - 21000)	
				W	5570 (1320 - 6150)	
NOMINAL HEATING CAPACITY				Btu/h	21000 (4500 - 23000)	
				W	6150 (1320 - 6740)	
NOMINAL TOTAL INPUT POWER (COOLING)				W	1500 (355 - 1870)	
NOMINAL TOTAL INPUT POWER (HEATING)				W	1630 (350 - 1950)	
NOMINAL RUNNING CURRENT (COOLING)				A	6.75 (1.61 - 8.42)	
NOMINAL RUNNING CURRENT (HEATING)				A	7.38 (1.59 - 8.83)	
POWER SOURCE				V/Ph/Hz	220 - 240 / 1 /50	
REFRIGERANT TYPE					R410A	
INDOOR UNIT	CONTROL	AIR DISCHARGE			LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)	
		OPERATION			WIRELESS LCD REMOTE CONTROL	
	AIR FLOW	HIGH		CFM / L/s	300 / 141.6	330 / 155.7
		MEDIUM		CFM / L/s	250 / 118.0	260 / 122.7
		LOW		CFM / L/s	200 / 94.4	210 / 99.1
	SOUND PRESSURE (H/M/L)			dBA	39 / 34 / 28	42 / 36 / 29
	UNIT DIMENSION	HEIGHT		mm/in	260 / 10.2	
		WIDTH		mm/in	899 / 31.5	
		DEPTH		mm/in	198 / 7.8	
	PACKING DIMENSION	HEIGHT		mm/in	337 / 13.3	
		WIDTH		mm/in	957 / 37.7	
		DEPTH		mm/in	270 / 10.6	
	UNIT WEIGHT			kg/lb	9.4	
	CONDENSATE DRAIN SIZE			mm/in	16 / 0.63	
OUTDOOR UNIT	AIR FLOW			CFM / L/s	1300 / 613.5	
	SOUND PRESSURE			dBA	52	
	UNIT DIMENSION	HEIGHT		mm/in	755.5 / 29.7	
		WIDTH		mm/in	940 / 37.0	
		DEPTH		mm/in	392 / 14.3	
	PACKING DIMENSION	HEIGHT		mm/in	790 / 31.1	
		WIDTH		mm/in	1015 / 40.0	
		DEPTH		mm/in	402 / 15.8	
	UNIT WEIGHT			kg/lb	50 / 110.2	
	PIPE CONNECTION	TYPE			FLARE	
		SIZE	LIQUID	mm/in	2 x (6.35 / ¼")	
			GAS	mm/in	2 x (9.52 / 3/8")	
REFRIGERANT CHARGE				kg/lb	1.65 / 3.64	

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.
3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.
5) ALL SPECIFICATION ARE TENTATIVE SPECIFICATION AT THE TIME OF PRINTING. PLEASE CONSULT YOUR DEALER FOR CONFIRMATION.
6) SOUND SPECTRUM FOR MWMX010GR / MWMX015GR IS NOT AVAILABLE AT THE TIME OF PRINTING

Electrical Data

MODEL	OUTDOOR UNIT		M5MSX020AR	
	INDOOR UNIT		M5WMX010GR	M5WMX015GR
INDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	230 / 1 / 50	
	RATED INPUT POWER	W	38	40
	RATED RUNNING CURRENT	A	0.19	0.20
	MOTOR OUTPUT	W	17	
	POLES		4P	
OUTDOOR MOTOR	INSULATION GRADE		B	
	POWER SOURCE	V/Ph/Hz	230 / 1 / 50	
	RATED INPUT POWER	W	130	
	RATED RUNNING CURRENT	A	0.58	
	MOTOR OUTPUT	W	75	
COMPRESSOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	0-300/3/0-100	
	CAPACITOR	μF	-	
	RATED INPUT POWER (COOLING)	W	1350	
	RATED INPUT POWER (HEATING)	W	1440	
	RATED RUNNING CURRENT (COOLING)	A	6.05	
	RATED RUNNING CURRENT (HEATING)	A	6.45	
	LOCKED ROTOR AMP.	A	30	

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Components Data

MODEL	OUTDOOR UNIT			M5MSX020AR	
	INDOOR UNIT			M5WMX010GR	M5WMX015GR
INDOOR FAN	TYPE			ANTI FUNGUS CROSS FLOW FAN	
	QUANTITY			1	1
	MATERIAL			ACRYLO NITRILE STYRENE	
	DRIVE			DIRECT	
	DIAMETER		mm/in	87 / 3.4	
	LENGTH		mm/in	636 / 25.0	
INDOOR FAN MOTOR	TYPE			INDUCTION	
	Q'TY			1	
	INDEX OF PROTECTION (IP)			IP24	
OUTDOOR FAN	TYPE			PROPELLER FAN	
	QUANTITY			1	
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN	
	DRIVE			DIRECT	
	DIAMETER		mm/in	460 / 18.11	
OUTDOOR FAN MOTOR	TYPE			INDUCTION	
	QUANTITY			1	
	INDEX OF PROTECTION (IP)			IP24	
COMPRESSOR	TYPE			DC BRUSHLESS SCROLL	
	OIL TYPE			POLYVINYLETHER OIL (PVE)	
	OIL AMOUNT		cm^3 / fl.oz	480 / 16.23	
INDOOR COIL	TUBE	MATERIAL		INNER GROOVED SEAMLESS COPPER TUBE	
		DIAMETER	mm/in	7.0 / 0.276	
		THICKNESS	mm/in	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	
		THICKNESS	mm/in	0.11 / 0.0043	
		FACE AREA	m^2/ft^2	0.193 / 2.08	
		ROW		2	
		FIN PER INCH		18	
OUTDOOR COIL	TUBE	MATERIAL		INNER GROOVED SEAMLESS COPPER TUBE	
		DIAMETER	mm/in	7.0 / 0.276	
		THICKNESS	mm/in	0.32 / 0.013	
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC SLIT FIN TYPE)	
		THICKNESS	mm/in	0.11 / 0.0043	
		FACE AREA	m^2/ft^2	0.62 / 6.67	
		ROW		2	
		FIN PER INCH		20	
FILTRATION	TYPE			SARANET	
	QUANTITY		pc	2	
	DIMENSION (L x W x t)		mm/in	386 x 364.3 x 1.5 / 15.2 x 14.3 x 0.06	
	TYPE			ANTI-MICROBIAL	
	QUANTITY		pc	1	
	DIMENSION (L x W x t)		mm/in	248 x 43 x 5 / 9.8 x 1.7 x 0.2	
	TYPE			TITANIUM OXIDE	
	QUANTITY		pc	1	
	DIMENSION (L x W x t)		mm/in	248 x 43 x 5 / 9.8 x 1.7 x 0.2	
CASING	INDOOR UNIT		MATERIAL	HIGH IMPACT POLYSTYRENE	
			COLOUR	LIGHT GREY	
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL	
			COLOUR	LIGHT GREY	

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Performance Data

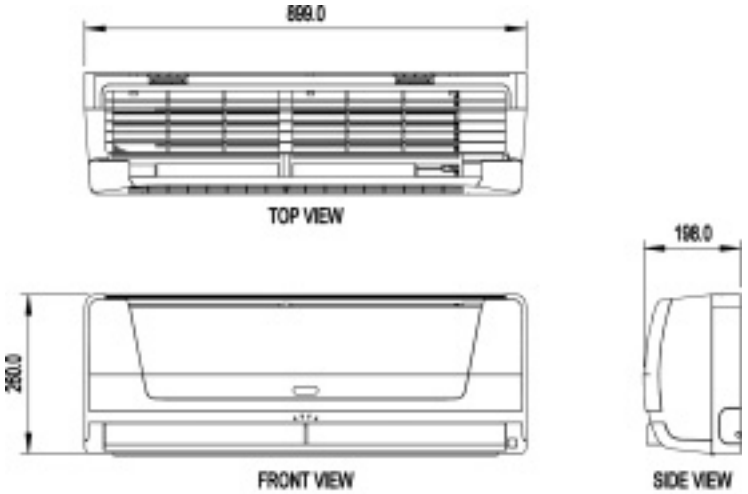
Capacity Rating

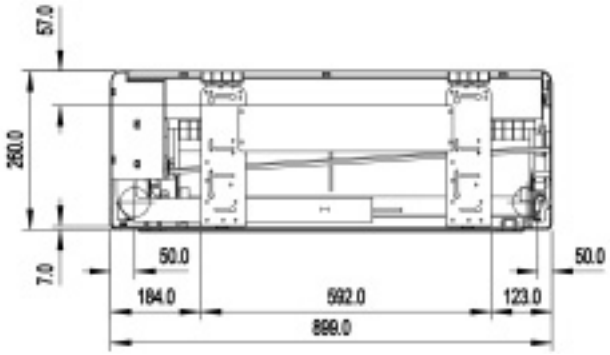
Model M5MSX20A/AR with M5WMX-G/GR

CONDITION	INDOOR OPERATING UNIT (M5WMX-G/GR)	NOMINAL COOLING CAPACITY								INPUT POWER (W)		RUNNING CURRENT (A)	
		INDIVIDUAL INDOOR		TOTAL									
		A	B	BTU/h		kcal/h		KW					
		RATED	RATED	RATED	(MAX)	RATED	(MAX)	RATED	(MAX)	RATED	(MAX)	RATED	(MAX)
Cooling	10	9000	-	9000	(10000)	2268	(2520)	2.64	(2.93)	870	(960)	3.92	(4.32)
	15	12000	-	12000	(13000)	3024	(3276)	3.52	(3.81)	1145	(1440)	5.15	(6.48)
	10 + 10	9000	9000	18000	(21000)	4536	(5292)	5.28	(6.15)	1420	(1870)	6.39	(8.42)
	10 + 15	9000	9500	18500	(21000)	4662	(5292)	5.42	(6.15)	1460	(1870)	6.57	(8.42)
	15 + 15	9500	9500	19000	(21000)	4788	(5292)	5.57	(6.15)	1500	(1870)	6.75	(8.42)
Heating	10	11000	-	11000	(12000)	2772	(3024)	3.22	(3.52)	1040	(1135)	4.68	(5.11)
	15	13000	-	13000	(15000)	3276	(3780)	3.81	(4.40)	1230	(1660)	5.54	(7.47)
	10 + 10	10000	10000	20000	(23000)	5040	(5796)	5.86	(6.74)	1550	(1950)	6.98	(8.78)
	10 + 15	10000	10500	20500	(23000)	5166	(5796)	6.01	(6.74)	1590	(1950)	7.16	(8.78)
	15 + 15	10500	10500	21000	(23000)	5292	(5796)	6.15	(6.74)	1630	(1950)	7.34	(8.78)

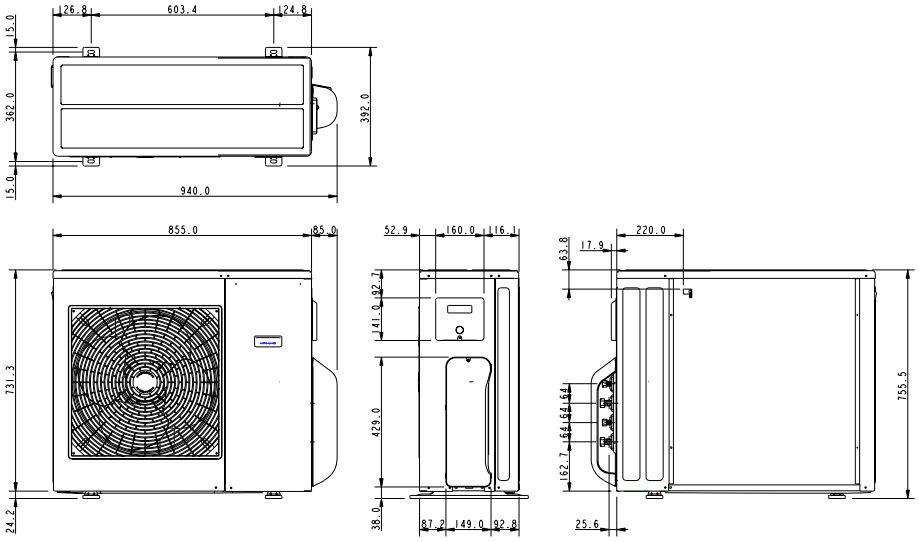
Dimensional Data

Indoor Unit
Model : M5WMX 010GR / 015GR



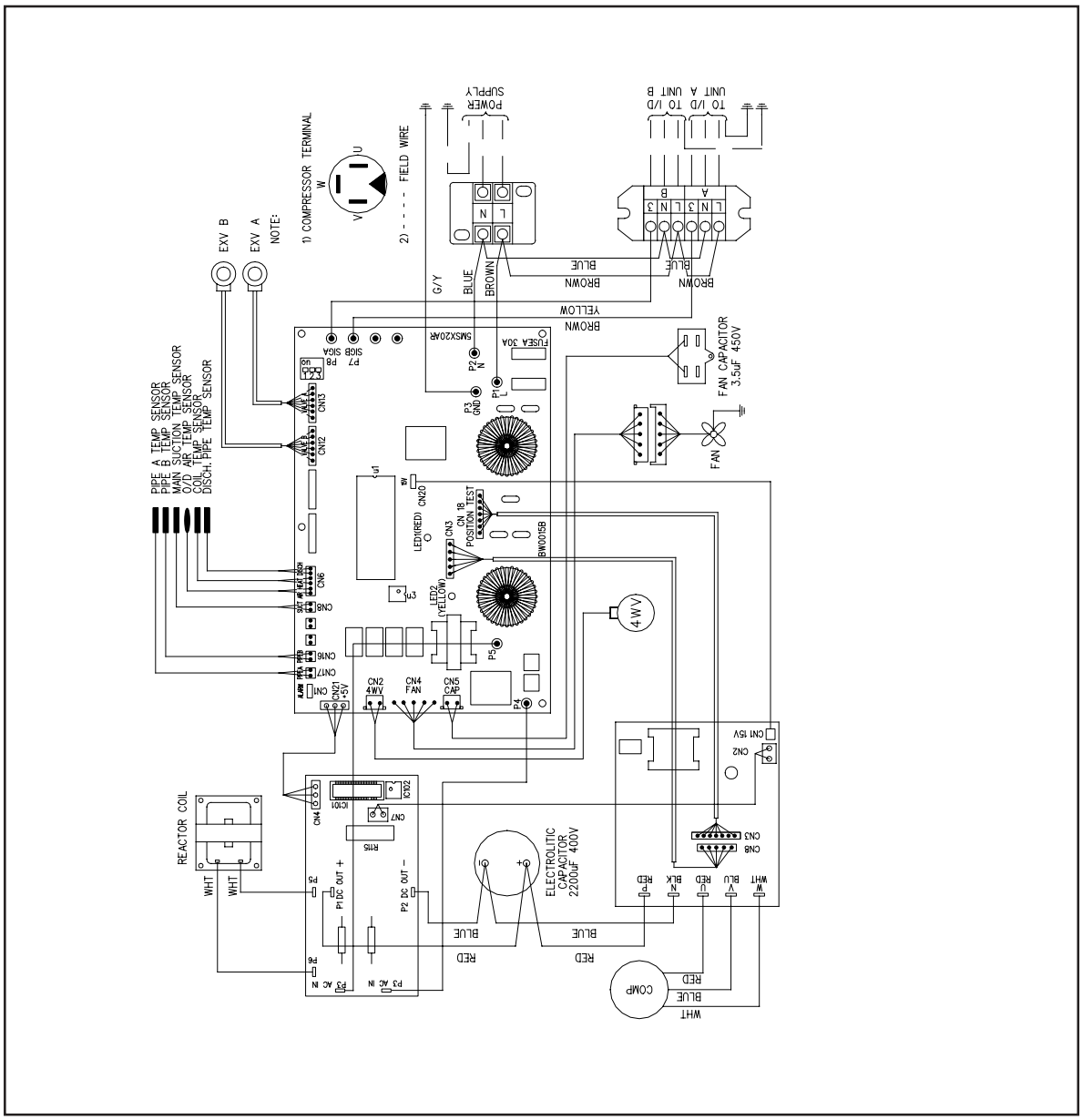


Outdoor Unit
Model : M5MSX 020AR



Wiring Diagrams

Indoor Unit
Model : M5MSX 020AR



Troubleshooting

When a malfunction of the air conditioner unit is detected, immediately switch off the main power supply before proceeding with the following troubleshooting procedures.
The following are common fault conditions and simple troubleshooting tips. If any other fault conditions which are not listed occur, contact your nearest local dealer. DO NOT attempt to troubleshoot the unit by yourself.

No	Fault conditions	Possible causes / corrective actions
1	The air conditioner unit will not resume after power failure.	• The auto restart function is not functioning. Please turn on the unit with the wireless / wired controller.
2	The compressor does not operate 3 minutes after the air conditioner unit is started.	• Protection against frequent starting. • Wait for 3 or 4 minutes for the compressor to start operating by it self.
3	The airflow is too slow or room cannot be cooled sufficiently.	• The air filter is dirty. • The doors and windows are opened. • The air suction and discharge of both indoor and outdoor units are clogged or blocked. • The regulated temperature or temperature setting is not low enough.
4	Discharge airflow has bad odor.	• Cigarettes, smoke particles, perfume and others, which might have adhered onto the coil, may cause odor. • Contact your nearest dealer.
5	Condensation on the front air grille of the indoor unit.	• This is caused by air humidity after an extended period of operation. • The set temperature is too low. Increase the temperature setting and operate the unit at high fan speed.
6	Water flowing out from the air conditioner.	• Switch off the unit and contact your nearest dealer. This might be due to tilted installation.
7	Hissing airflow sound from the air conditioner unit during operation.	• Liquid refrigerant flowing into the evaporator coil.
8	The wireless controller display is dim.	• The batteries are discharged. • The batteries are not correctly inserted. • The assembly is not good.
9	Compressor operates continuously.	• Dirty air filter. Clean the air filter. • Temperature setting too low (cooling). Use higher temperature setting. • Temperature setting too high (heating), Use lower temperature setting.
10	No cool air comes out during cooling cycle, or no hot air comes out during heating cycle.	• Temperature setting too high (cooling). Use lower temperature setting. • Temperature setting too low (heating). Use higher temperature setting.
11	On heating cycle, warm air does not come out.	• Unit is in defrost mode. Heating operation will resume after defrost cycle ends.

Diagnostic Guideline

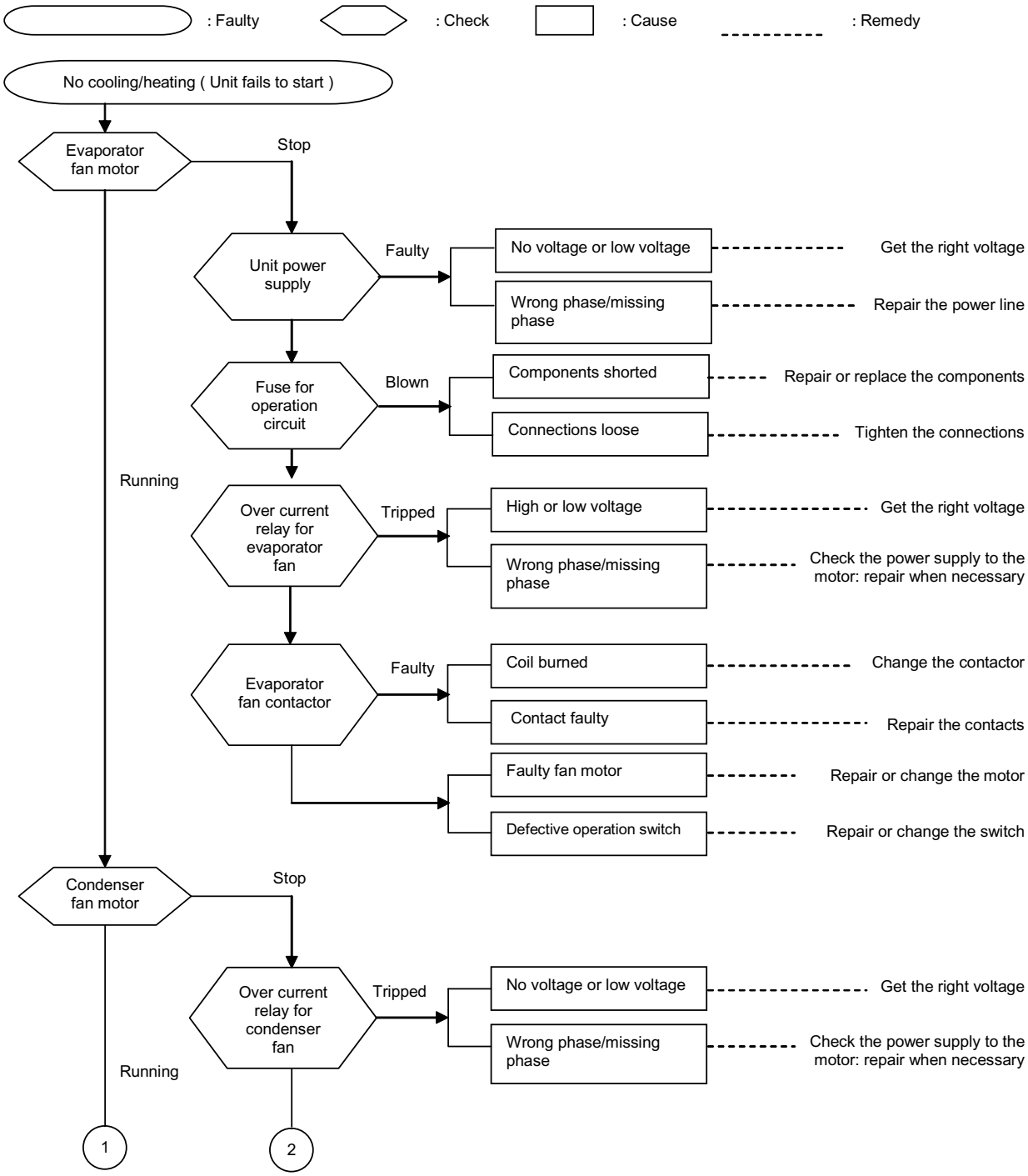
By means of pressure readings

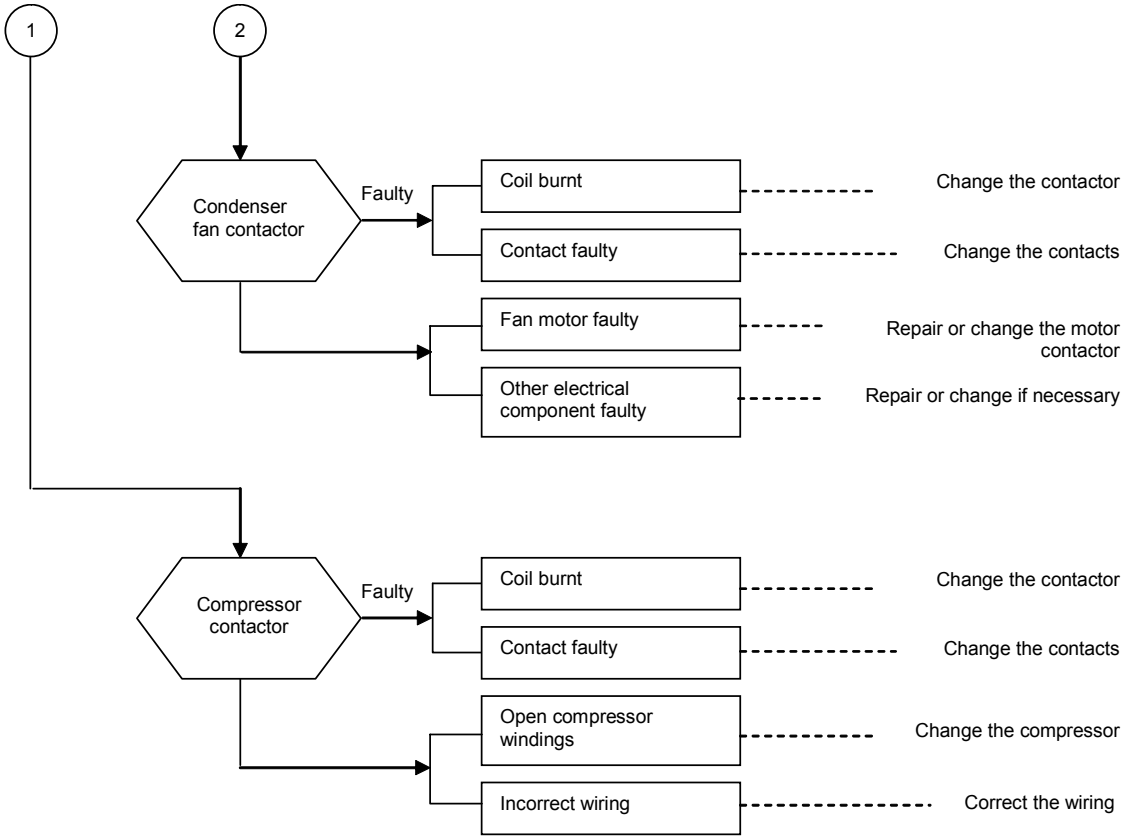
Data / Circuit	Pressure					Probable cause
	Too low	A little low	Normal	A little high	Too high	
High side **Low side**					• •	1. Overcharged with refrigerant. 2. Non-condensable gases in refrigerant circuit (e.g. air) 3. Obstructed air-intake / discharge. 4. Hot air short circuiting in outdoor unit.
High side **Low side**	•				•	1. Poor compression / no compression (compressor defective) 2. Reversing valve leaking.
High side **Low side**	•	•				1. Undercharged with refrigerant. 2. Refrigerant leakage. 3. Air filter clogged / dirty (indoor unit). 4. Indoor fan locked / seized. 5. Defective defrost control, outdoor coil freeze up (heating). 6. Outdoor fan locked / seized (heating).
High side **Low side**				•	•	1. Outdoor fan blocked (cooling). 2. Outdoor coil dirty (cooling). 3. Indoor fan locked / seized (heating). 4. Indoor air filter clogged / dirty (heating). 5. Non-condensable gases in refrigerant circuit (e.g. air)
High side **Low side**				•	•	1. Air intake temperature of indoor unit too high.

By Means Of Diagnostic Flow Chart:

Generally, there are two kinds of problems, i.e. starting failure and insufficient cooling/heating. “Starting failure” is caused by electrical defect while improper application or defects in refrigerant circuit causes “Insufficient cooling / heating”.

i) Diagnosis of Electric Circuit



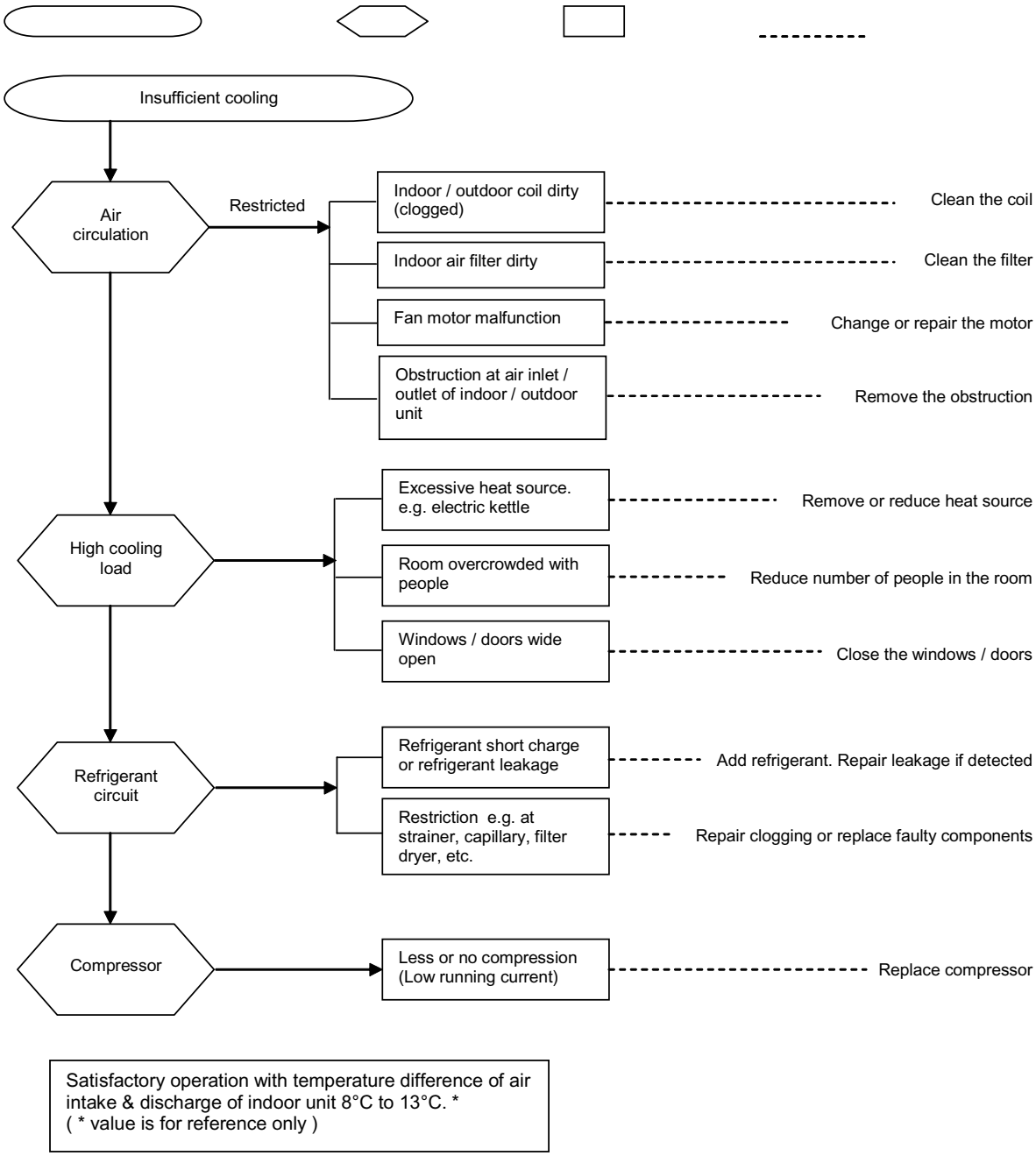


The most common causes of air conditioner failure to “start” are :

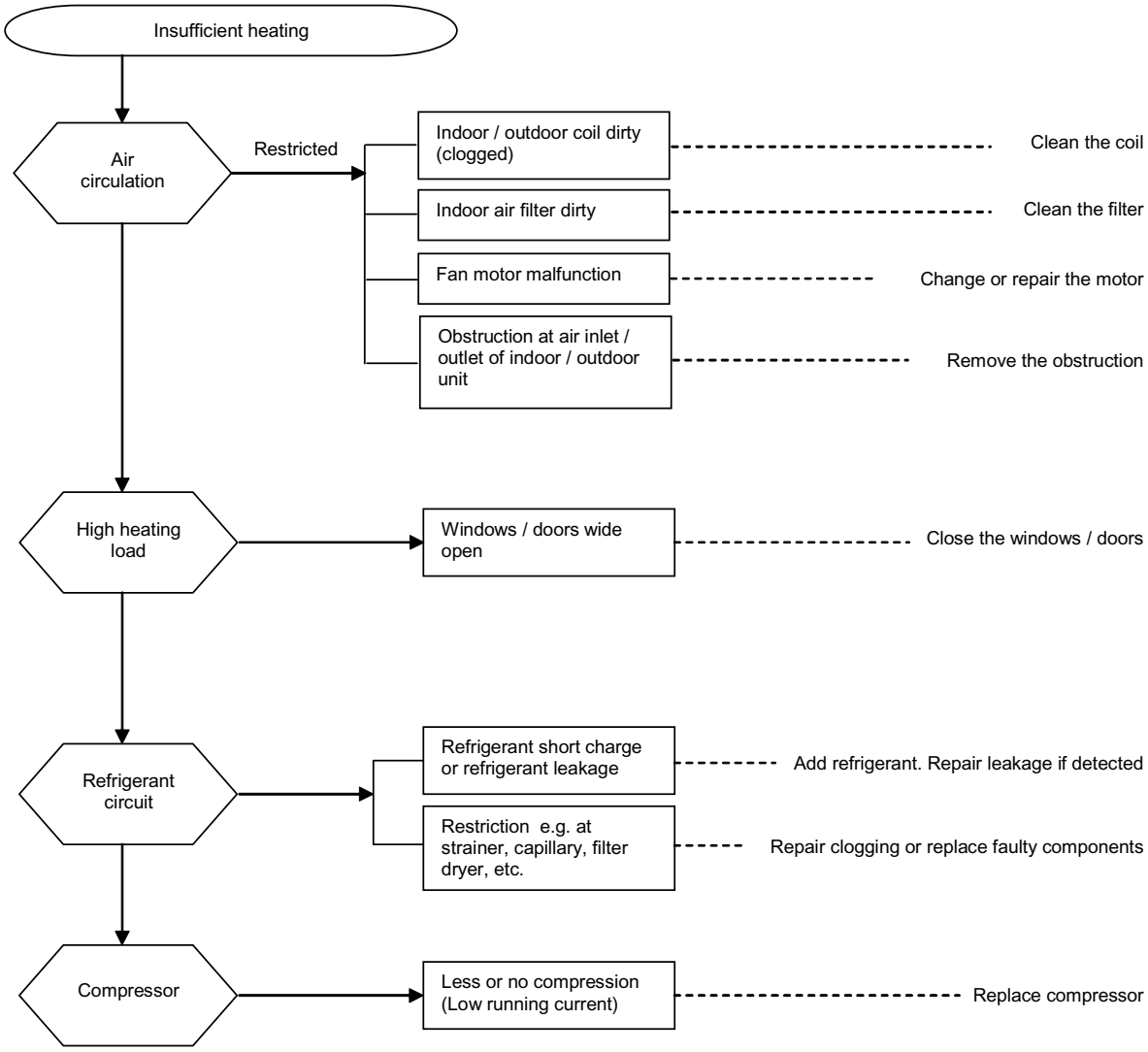
a) Voltage not within ±10% of rated voltage.
b) Power supply interrupted.
c) Improper control settings.
d) Air conditioner is disconnected from main power source.

ii) Diagnosis of Refrigerant Circuit / Application

There might be some causes where the unit starts running but does not perform satisfactorily, i.e. insufficient cooling. Judgement could be made by measuring temperature difference of indoor unit's intake and discharge air as well as running current.



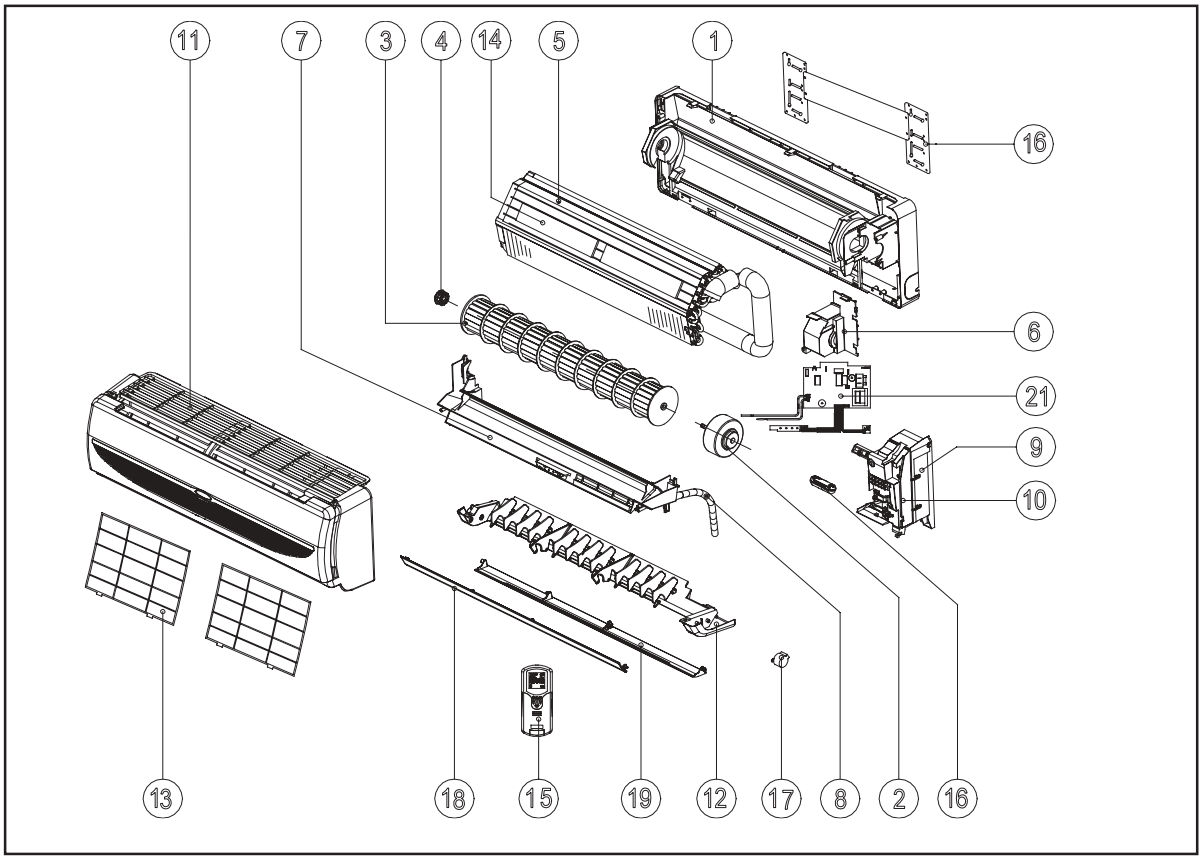
Satisfactory operation with temperature difference of air intake & discharge of indoor unit 8°C to 13°C. *
(* value is for reference only)



Satisfactory operation with temperature difference of air intake & discharge of indoor unit 14°C to 20°C. *
(* value is for reference only)

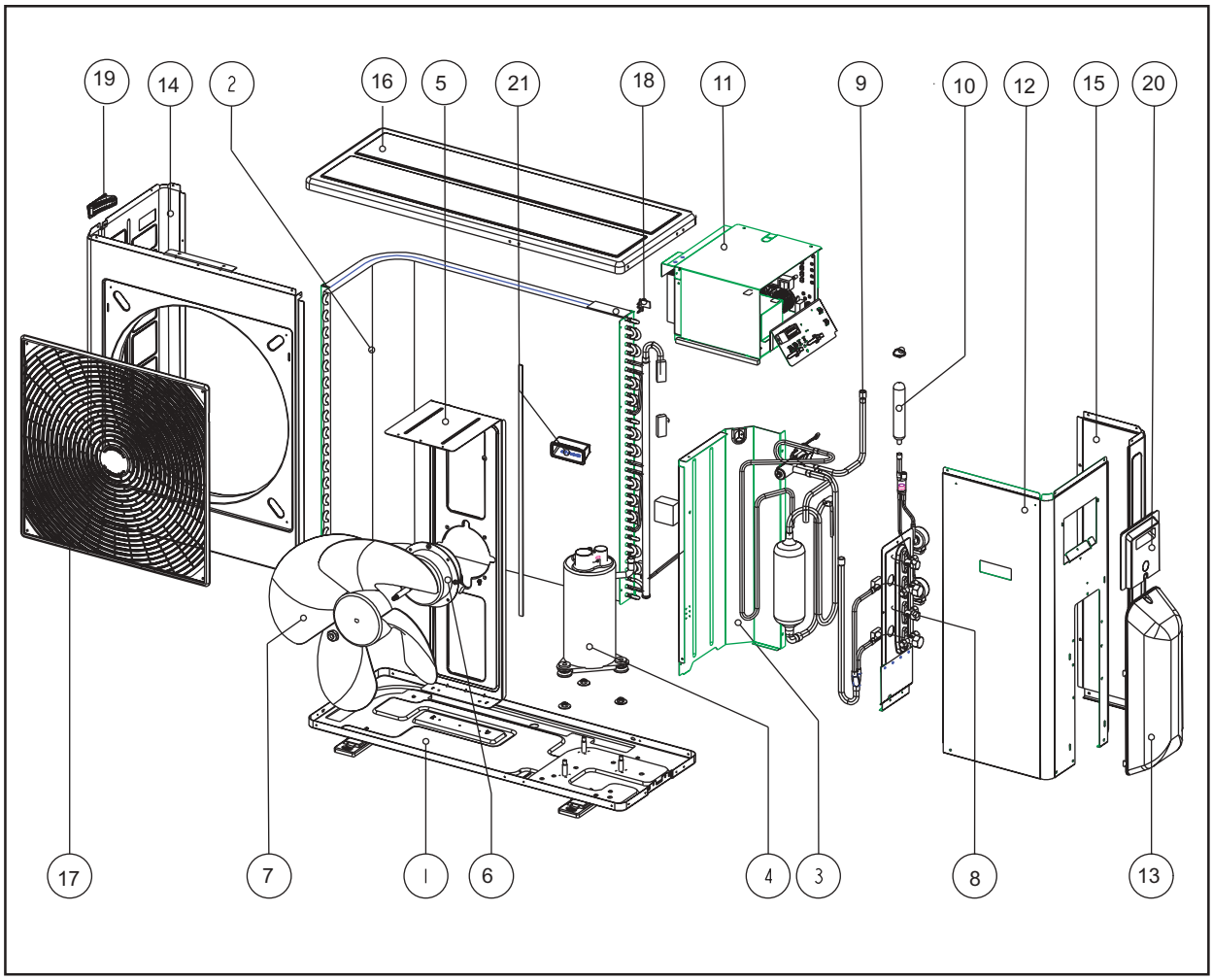
Exploded View and Parts List

M5WMX 010GR / 015GR



No.	Description	Part Number	Related Model			
			A5WMX 10GR		A5WMX 15GR	
			Ionizer	NTP	Ionizer	NTP
1	ASSY, CHASSIS 10/15G	A50124064151	✓	✓	✓	✓
2	MOTOR, MWMX10/15G-501-WL 17W WELLING	A03039022520	✓	✓	✓	✓
3	BLOWER CROSS FLOW WM10/15G G97-717.5	A03029019461	✓	✓	✓	✓
4	FAN BUSH C/FLOW BLACK	A11014029514	✓	✓	✓	✓
5	ASSY. INDOOR COIL					
	ASSY, INDOOR COIL - WM10GR	A50024064225	✓	✓	-	-
	ASSY, INDOOR COIL - WM15GR	A50024066054	-	-	✓	✓
6	PIPING CLAMP	A12014060544	✓	✓	✓	✓
7	ASSY, DRAIN PAN 10/15G	A50124064152	✓	✓	✓	✓
8	DRAIN HOSE WM10/15(600mmL)	A10024018204	✓	✓	✓	✓
9	ASSY, CONTROL BOX COVER (AP)	A50124074815	✓	✓	✓	✓
10	ASSY, CONTROL BOX					
	ASSY, CONTROL BOX 10GR-IONIZER	A50044074471	✓	-	-	-
	ASSY, CONTROL BOX 10GR-NTP	A50044074475	-	✓	-	-
	ASSY, CONTROL BOX 15GR-IONIZER	A50044074472	-	-	✓	-
	ASSY, CONTROL BOX 15GR-NTP	A50044074476	-	-	-	✓
11	ASSY,F/COVER-A	A50124074449	✓	✓	✓	✓
12	ASSY, AIR DISCHARGE 10/15	A50124062326	✓	✓	✓	✓
13	FILTER 10/15G	A12014062321	✓	✓	✓	✓
14	FILTER ANTI MICROBIAL	A03089019984	✓	✓	✓	✓
	AIR FILTER, t5x248x43mm (Titanium Oxide)	A03089015250	✓	✓	✓	✓
15	HANDSET, WIRELESS G11 AP MCQUAY	A04084067314	✓	✓	✓	✓
16	ASSY, MOUNTING PLATE 10/15G	A50014062324	✓	✓	✓	✓
17	MOTOR, AIR SWING WM10/15G	A03039021375	✓	✓	✓	✓
18	LOUVER TOP 10/15G	A12014061363	✓	✓	✓	✓
19	LOUVER BOTTOM 10/15G	A12014061364	✓	✓	✓	✓
Parts not showed in diagram						
	STICKER, LOGO (MCQUAY) - GRILLE A	A080240466868	✓	✓	✓	✓

M5MSX 020AR



No.	Description	Part Number	Related Model
			A5MSX 20AR
1	ASSY, BASE PAN	A50014073830	✓
2	ASSY, CONDENSER COIL (5MSX20AR)	A50024071636	✓
3	PANEL, PARTITION	A01014072818	✓
4	ASSY, COMPRSSOR 5CS130XCC03	A50049024264	✓
5	BRACKET MOTOR (SL25C/28C/CR)	A01014070948	✓
6	MOTOR, M5MSX20AR-501-K 64W	A03039024770	✓
7	FAN PROPELLER, Ø460 0Z40700	A03019023393	✓
8	ASSY, VALVE BRACKET (5MSX20AR)	A50024074217	✓
9	ASSY, 4WAY VALVE(5MSX20AR)	A50024074210	✓
10	FILTER DRIER, STS2258 KYOSEKI SANGYO	A02169024287	✓
11	ASSY, CONTROL BOX (5MSX20AR)	A50044072830	✓
12	ASSY, PANEL SERVICE	A50014076979	✓
13	VALVE COVER, MSD/MSH/MST	A12014057544	✓
14	PANEL FRONT / LEFT	A01014070947	✓
15	PANEL RIGHT BACK (SL25C/28C/CR)	A01014070950	✓
16	PANEL TOP (SL20C/25C/28C/CR)	A01014070596	✓
17	ASSY FRONT GRILLE (SL20C/25C/28C/CR)	A50124072880	✓
18	THERMISTER HOLDER WM10/15	A12014016707	✓
19	PLASTIC,HANDLE SL07C/09C/10C/15C/CR	A12014057948	✓
20	ACCESS PANEL C/W INS SL	A50124017615	✓
21	PLASTIC HANDLE FRONT (SL25C/28C/CR)	A12014070955	✓
Parts not in Diagram			
22	ASSY, CAPILLARY TUBE (5MSX20AR)	A50024074209	✓
23	VALVE, REV 4 WAY SHF-7H-34U(RK)	A05019016937	✓
24	VALVE, FLARE 2WAY 1/4" (R410A)	A50054074219	✓
25	VALVE, FLARE 3WAY 3/8" (R410A)	A50054074218	✓
26	VALVE, EXV ZDPF(L) 1.6C-10-RK(E)	A05019024212	✓
27	ACCUMULATOR,DIA70.2 X OD16 X T1.2	A02114066381	✓

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