



**Domestic Air Conditioner**

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# SERVICE MANUAL

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## Models

HM-05CC03/R1

HM-07CC03/R1

HM-09CC03/R1

HSM-08CC03/R1

## ● Features

- 3 Cooling and 3 Fan Speeds
- Auto Fan Function
- Dehumidification Function
- 24 Hour Auto Shut-Off Timer
- Easy-access Air Filter
- Easy-roll Casters
- LED Temperature Display
- Removable Water Container
- CFC Free Refrigerant

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## Product Code Illumination And Series Introduction

### 1. Model identification:

$\frac{H}{A}$   $\frac{S}{B}$   $\frac{M}{C}$  —  $\frac{\square\square}{D}$   $\frac{\square}{E}$   $\frac{\square}{F}$   $\frac{\square\square}{G}$  /  $\frac{\square}{H}$

A: Abbreviation of Haier

B: Abbreviation of split

C: Abbreviation of mobile

F-Mechanical Control

D: Nominal cooling capacity (BTU/h) with the first two numbers based on one thousand unit

E: Function code

C-Cooling only

H-Heating pump

E-Electric aided heating

F: Developing sequence

G: The type of power supply

H: The kind of refrigerant

Examples:

HSM-08C03

---It represents split—mobile air conditioner. Cooling capacity is 8000BTU/H and the power supply is 220—230V/50Hz.

### 2. Standard situation/conditions

No.	Operating condition	Indoor air state		outdoor air state	
		D.B.	W.B.	D.B.	W.B.
1	Nominal cooling	30	26	30	26
2	Nominal heating	32	23	43	26
3	Nominal electrical heating	/	/	/	/

### 3. Brief introduction of mobile window air conditioner series

The product of mobile air conditioner is the new type of air conditioner developed by our company. Its main character is : there are four foot wheels in the bottom of indoor unit, which can move among every apartment of the room . For whole mobile air conditioner such as HM-05CC03/R1, HM—07CC03/R1, HM—09CC03/R1, HSM—08CC03/R1, heat between indoor unit and outdoor unit can be exchanged through Outdoor unit. Drainage of mobile air conditioner use the principle of gravity drainage ,having the advantage of easy installation without breaking the wall, so it is very popular with many consumers.

## Specifications:

\*The manufacture reserves the right to change any product specifications without notice.

		UNIT	HM-05CC03/R1	HM-07CC03/R1
Cooling capacity		BTU/h	5000	7000
Heating capacity		BTU/h	/	/
Power supply			1PH.220V-230V/~50Hz	1PH.220V-230V/~50Hz
Cooling	Power input	W	650	950
	Running current	A	3.0	4.0
	EER	BTU/(hw)	7.7	7.4
Heating	Power input	W	/	/
	Running current	A	/	/
	COP	BTU/(hw)	/	/
Sound level	Indoor side	db(A)	53	50
	Outdoor side	db(A)	/	/
Case	Length	mm	326	326
	Height	mm	788	788
	Width	mm	430	430
Packaging dimensions	Height	mm	857	857
	Width	mm	495	495
	Length	mm	475	475
Weight	Net	kg	32	32
	Gross	kg	35	34
Compressor	Type		TOSHIBA	TOSHIBA
	Model		PG108X1C	PG130X1C
	Running Cap..for comp.	μF	25	25
	Starting method		PSC	PSC
Pressure	Heating side	MPa	2.65	2.65
	Cooling side	MPa	0.65	0.65
Refrigerant	Model		R407C	R407C
	charge	kg	0.5	0.52
Fan	Type	Indoor unit		Inertial fan
		Outdoor unit		Inertial fan
		Hi	r/min	900

	Fan speed	Lo	r/min	750	1070
	Running capacitor		μF	30	30
Air direction control				60~70	60~70
Air volume Moisture removal				260	260
Moisture removal			m <sup>3</sup> /hr	1.6*10-3	1.6*10-3
Attestation			m <sup>3</sup> /hr	CE	CE
Exchanging pipe type/diameter				Evaporator. ? 7 condenser: ? 9	Evaporator. ? 7 condenser: ? 9
Fin factor			mm	/	/
Fin material				Hydrophile aluminum foil	Hydrophile aluminum foil
Case material				Electrical zinc board	Electrical zinc board
Type of capillary				? 1.2TP2Y	? 1.2TP2Y
Total area of evaporator			mm <sup>2</sup>	1.77	1.77
Total area of condenser			mm <sup>2</sup>	4.09	4.09
Pipe connection				/	/

## Specifications:

\*The manufacture reserves the right to change any product specifications without notice.

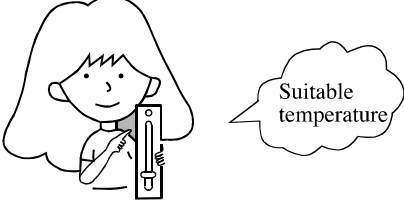
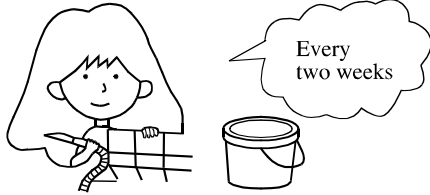
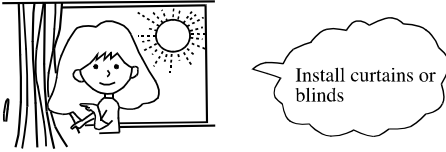
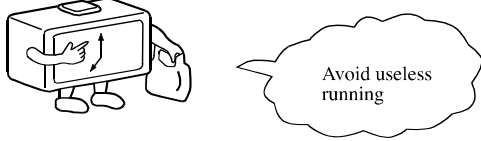
		UNIT	HM-09CC03/R1	HM-08CC03/R1
Cooling capacity		BTU/h	9000	8000
Heating capacity		BTU/h	/	/
Power supply			1PH.220V-230V/~50Hz	1PH.220-230V/50Hz
Cooling	Power input	W	1080	1000
	Running current	A	4.8	5.0
	EER	BTU/(hw)	2.4	8.0
Heating	Power input	W	/	/
	Running current	A	/	/
	COP	BTU/(hw)	/	/
Sound level	Indoor side	db(A)	53	46
	Outdoor side	db(A)	/	55
Case	Length	mm	326	326
	Height	mm	788	788
	Width	mm	430	430
Packaging dimensions	Height	mm	857	1175
	Width	mm	495	578
	Length	mm	475	527
Weight	Net	kg	35	33+12.5
	Gross	kg	37	53
Compressor	Type		TOSHIBA	TOSHIBA
	Model		PG150X1C	PG150X1C
	Running Cap.for comp.	μF	25	25
	Starting method		PSC	PSC
Pressure	Heating side	MPa	2.65	2.65
	Cooling side	MPa	0.65	0.65
Refrigerant	Model		R407C	R407C
	charge	kg	0.73	0.8
Fan	Type	Indoor unit		Centrifugal fan
		Outdoor unit		Axial fan
				Inertial fan
				Axial fan



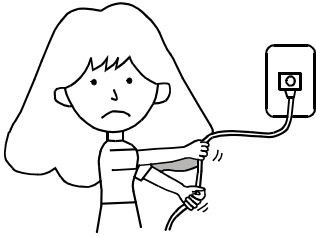

**Domestic Air Conditioner Model: HM-05CC03/R1  
HM-07CC03/R1 HM-09CC03/R1 HSM-08CC03/R1**

	Fan speed	Hi	r/min	1060	1100
		Lo	r/min	850	1070
	Running capacitor		μF		30
Air direction control				60~70	60~70
Air volume Moisture removal				350	300
Moisture removal			m <sup>3</sup> /hr	1.8*10-3	1.95*10-3
Attestation			m <sup>3</sup> /hr	CE	CE
Exchanging pipe type/diameter				Evaporator: ? 7 condenser: ? 9	Evaporator: ? 7 condenser: ? 9
Fin factor			mm		/
Fin material				Hydrophile aluminum foil	Hydrophile aluminum foil
Case material				Electrical zinc board	Electrical zinc board
Type of capillary				? 1.2TP2Y	? 1.2TP2Y
Total area of evaporator			mm <sup>2</sup>	/	2.02
Total area of condenser			mm <sup>2</sup>	/	4.67
Pipe connection				/	/

## Safety and Precaution

<p>Suitable indoor temperature.</p> 	<p>Cleaning of the air filter.</p> 
<p>Close the doors and windows during running</p> 	<p>Use the timer reasonably.</p> 

Do remember the following:

<p>Do not splash water onto the machine.        Operation with wet hands is forbidden.        Don't insert wood bar, steel wire into the unit avoiding any hazards or faults.</p>	<p>No obstructions allowed at the air inlet and outlet.        Don't blow cool wind directly to the body for a long time avoiding getting cold.        Don't make the cool wind to blow the plant directly.</p>
<p>Do not pull the power line with hands.</p> 	<p>Do not use it in other fields: storage of foods, feeding animals, plantings, etc.</p> 



## Warning and Cautions

### ***Disposal of the old air conditioner***

Before disposing an old air conditioner that goes out of use, please make sure it's inoperative and safe. Unplug the air conditioner in order to avoid the risk of child entrapment.

It must be noticed that air conditioner system contains refrigerants, which require specialized waste disposal. The valuable materials contained in a air conditioner can be recycled. Contact your local waste disposal center for proper disposal of an old air conditioner and contact your local authority or your dealer if you have any question. Please ensure that the pipework of your air conditioner does not get damaged prior to being picked up by the relevant waste disposal center, and contribute to environmental awareness by insisting on an appropriate, anti-pollution method of disposal

### ***Disposal of the packaging of your new air conditioner***

All the packaging materials employed in the package of your new conditioner may be disposed without any danger to the environment.

The cardboard box may be broken or cut into smaller pieces and given to a waste paper disposal service. The wrapping bag made of polyethylene and the polyethylene foam pads contain no fluorochloric hydrocarbon.

All these valuable materials may be taken to a waste collecting center and used again after adequate recycling.

Consult your local authorities for the name and address of the waste materials collecting centers and waste paper disposal services nearest to your house.

### ***Safety Instructions and Warnings***

Before starting the air conditioner, read the information given in the User's Guide carefully. The user's Guide contains very important observations relating to the assembly, operation and maintenance of the air conditioner.

The manufacturer does not accept responsibility for any damages that may arise due to non-observation of the following instruction.

- Damaged air conditioners are not to be put into operation. In case of doubt, consult your supplier.
- Use of the air conditioner is to be carried out in strict compliance with the relative instructions set forth in the User's Guide.
- Installation shall be done by professional people, don't install unit by yourself.

## Warning and Cautions

- For the purpose of safety, the air conditioner must be properly grounded in accordance with specifications.
- Always remember to unplug air conditioner before opening inlet grill, Never unplug your air conditioner by pulling on the power cord. Always grip plug firmly and pull straight out from the outlet.
- All electrical repairs must be carried out by qualified electricians. Inadequate repairs may result in a major source of danger for the user of the air conditioner.
- Do not damage any parts of the air conditioner that carry refrigerant by piercing or perforating the air conditioner's tubes with sharp or pointed items, crushing or twisting any tubes, or scraping the coatings off the surfaces. If the refrigerant spurts out and gets into eyes, it may result in serious eye injuries.
- Do not obstruct or cover the ventilation grille of the air conditioner. Do not put fingers or any other things into the inlet/outlet and swing louver.
- Do not allow children to play with the air conditioner. In no case should children be allowed to sit on the outdoor unit.

## **Specifications**

- The refrigerating circuit is leak-proof.
- Remark per EMC Directive 89/336/EEC
  - To prevent flicker impression during the start of the compressor (Technical Process) and the adversely influence caused by the 2<sup>nd</sup> harmonics of compressor following installation conditions do apply:
    1. The power connection for the air conditioner has to be done at the main power distribution. This distribution has to be of a low impedance. Normally the required impedance is reached at a 32A fusing point.
    2. No other equipment has to be connected to this power line.
    3. For the detailed installation acceptance please refer to your contract with the power supplier, if restrictions do apply for products like washing machines, air conditioners or electrical ovens.
    4. For the details of the power of air conditioner, please refer to the rating plate of the product.
    5. For any question contact your local dealer.