# GM-830A-Dual

# **A/C System Maintenance Centre**

# R1234a & R1234yf



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#### NOTE:

- 1) Carefully read the user manual before using, and keep it well for future reference.
- 2) Carefully check the device parts list before using. For any doubt, contact GAT MACHINERY distributor immediately.
- 3) Due to the product upgrade, tiny difference between the user manual and the device will not be further noticed. Take the device as standard.

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# Safety

- A. The machine is designed to be used and repaired by qualified personnel only.
- B. The machine is designed to be used for R134a and R1234yf refrigerant. Other refrigerant types are not applicable. Different types of refrigerants cannot be mixed, otherwise it is easy to cause equipment failure or damage the air conditioning system.
- C. Fill the A/C system with the quantity of refrigerant recommended by the manufacturer.
- D. Keep away from moving parts and rotating elements such as cooling fans, alternators and heating components, etc. to avoid harm.
- E. Wear protective clothing gloves and goggles.
- F. As automotive air conditioning pipe flushing, the operator must be fully familiar with automotive air conditioning system and operation of the machine. Check whenever the engine is turned off that the ignition key is turned to the full OFF position!
- G. Do not expose the machine to direct sunlight or rain. Use only in well-ventilated work areas.
- H. Never exceed 30 ° tilt in transit process upside down is strictly prohibited.
- I. Do not touch the machine high voltage power supply section, and do not maintain the machine as power on.
- J. Care of the manual.
- K. We reserve the right to modify the contents of this document without prior notice to our customers.

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# 1. Introduction

#### 1) Outline

GATMATIC GM series A/C system maintenance equipment is with the latest design technique which uses the best control principle and the manufacturing process.

A/C System Maintenance Centre is intelligent equipment collecting of the A/C flushing, recovery, recycling, recharging and other functions in one. It's with the beautiful shape, humanized operation interface, and advanced manufacturing processes to make the A/C maintenance professional and simple. The machine is designed to be used for R134a and R1234yf refrigerant.

#### 2) Features

- A. For R134a and R1234yf refrigerant.
- B. Fully automatic, easy to operate.
- C. Internal pipeline of A/C system flushing, effectively cleared the internal greasy and fouling, to restore the A/C system performance.
- D. With forward flushing, reverse flushing, and pulse flushing functions, which greatly improve the cleaning effect.
- E. Using large-size glass tube with LED backlighting, can effectively observe the entire cleaning process.
- F. Vertically installing the HP & LP gauges let the operator be able to observe the pressure parameters timely even in the car.
- G. Unique design of the pipeline to achieve the high recycling rate no matter with the gas or the liquid.
- H. Easy to operate with the concise operating interface.
- I. Designed with large size LCD.
- J. Database.
- K. Program and database can be updated.
- L. With printer.
- M. The self-cleaning function of the equipment can ensure that the refrigerant stored in the equipment meets the reuse level.

#### 3) Specifications

- A. Working conditions:
   Ambient temperature: 0~50°C
   Relative humidity: <85%</li>
- B. Voltage input: □AC220V±10%~50/60Hz

□AC110V±10%~60Hz (see as label)

- C. Compressor: 12.12cm<sup>3</sup>
- D. Vacuum pump: 7.2m<sup>3</sup>/h, 2Pa
- E. Load cell for tank: 30kg/±10g, 2pcs
- F. Load cell for oil bottle: 6kg/±5g
- G. Tank: 12L, 2pcs
- H. PAG oil bottle: 300ml
- I. POE oil bottle: 300ml
- J. Used oil bottle:500ml
- K. LCD display: 240\*128



- L. Working pressure: max. 20bar
- M. HP gauge: -1bar~35bar
- N. LP gauge: -1bar~20bar
- O. Max. Work Pressure:20bar
- P. Backlighting: LED
- Q. Language: Chinese and English (can be customized)

# 2、Functions

#### 1) Primary functions

- A. Dual refrigerant system
- B. Support dual refrigerant oil type
- C. Automatic flushing
- D. Automatic recovering/recycling
- E. Automatic/manual used oil drain
- F. Vacuum timing.
- G. Automatic/manual new oil injection
- H. Quantitative recharging
- I. Each function can operate independently
- J. Auto mode
- K. Database
- L. Print

# 2) Subsidiary functions

- A. Parameter setting
- B. Refrigerant supplement
- C. Pipeline self-cleaning
- D. Equipment emptying
- E. Equipment vacuum
- F. Electronic scale calibration (professional)
- G. Machine maintenance (Dry-filter exchanger, vacuum pump oil exchanger)
- H. Printer test
- I. Equipment status query
- J. Equipment info inquiry
- K. Help



# 3. Operation

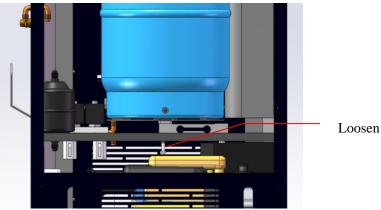
### 1) Parts descriptions





#### 2) First use

A. In order to avoid damage to the electronic scale during transportation, the electronic scale is protected when shipped. Open the back door, take out all the fillers on both sides of the tank and under the scale pan, and loosen the supporting screw under the scale plate to make the scale handle the suspended state. As shown in the figure below:



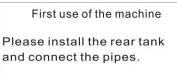
- B. Connect the power supply and power on. Please operation as following.
- C. Set the language: select one and press ENTER.

ANG	GUAGE:
	ENGLISH
	繁體中文
	简体中文

C、 Set the units: select one and press ENTER

Uints:	
Units.	
kg/g	
lbs	

D. Install the R1234yf storage tank back of the machine.



#### [NEXT]

- a) Place the storage tank on the rear scale and fix it.
- b) Connect the red and blue pipes to the red and blue valve interfaces of the tank, tighten them (it is recommended to apply a small amount of stop glue), and open the two valves.
- E. Connect the hoses and couplers

First use of the machine Connect the HP and the LP with a pipeline and quick connetor.

#### [NEXT]

- a) Connect the two RED hoses to the HP ports.
- b) Connect the two blue hoses to the LP ports.

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- c) Connect the RED and BLUE couplers of R134a to the RED and BLUE pipes of R134a respectively.
- d) Connect the RED and BLUE couplers of R1234yf to the RED and BLUE pipes of R1234yf respectively.
- F. Initialization

First use of the machine Vacuum the system pipes now. After vacuum, the next step will be done automatically.

G. Supply refrigerant to the new equipment (please refer to the SUPPLY FUNCTION section)

Initialization completed Please run the supply function.

#### Note:

- As the new equipment is empty, the Flushing and Recharging functions will not be performed.
- In order to ensure all functions normal, about 4kg R134a and 4kg R1234yf refrigerant need to be filled to the tanks. If it is not necessary to use the Flushing function, replenish at least 2kg.
- H. Please read this user manual carefully before operating.

#### 3) Preparations before Run Flushing function

- A. Check the refrigerant type of the automobile air conditioning, and connect the right couplers to the A/C service ports, and open the couplers on.
- B. Start the car, and run the A/C for about 5 minutes.
- C. Check whether the high and low pressure of A/C is normal. Check whether there is abnormal noise when the compressor works. If there is any abnormality, it must be repaired first.
- D. Turn off the air conditioner and turn off the engine.
- E. Empty the used oil bottle. Add an appropriate amount of new oil into the new oil bottles (Note: PAG and Poe types).
- F. Turn on and prepare for work. Warning: When the machine is running, never to run the A/C system!

#### 4) Power On

A. If the equipment detects abnormal information, it will give a prompt, which should be handled in time. If there is no prompt message, it will go to the next interface directly.

W01: R134a tank empty.
W09: R1234yf tank empty.
W03: Pressure is too high.
W10: Dry-filter service. It Can flush/recovery 5 times
W11: Vacuum pump service
(ENTER): HELP (EXIT): Exit

B. Select the refrigerant type: R134a or R1234yf. The default is the last operation type.



The last refrigerant type: R134a

The current refrigerant type

<mark>R134a</mark> R1234yf

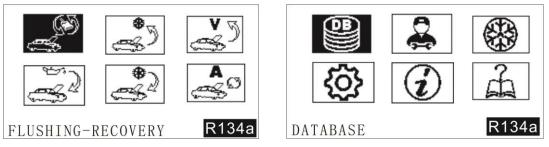
C. If the refrigerant type is different from last time, please operate according to the prompts.

System pipeline changing	System pipeline changing	System pipeline changing
Please block the HP and LP ports. Empty the used oil bottle.	Need about a few minutes. Please wait.	Refrigerant type conversion completed!
(NEXT)	(NEXT)	[NEXT]

If the process is terminated artificially, it will can't be into the main function and back to the last Interface.

System pipeline changing	The last refrigerant type: R134a
Refrigerant type conversion not completed !	The current refrigerant type
	R134a
[NEXT]	R1234yf

D. After completion, enter the function interface.



#### **Description:**

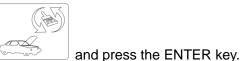
Description.			
	<b>Flushing- Recovery</b> This function include flushing and recovery process.		Database Check the amount of Refrigerant & oil
*5	<b>Recovery</b> Recovery the refrigerant of A/C system.		Equipment Maintanance Exchange dry-filter, Pipe-line cleanning, Calibration load cell.
V J	<b>Vacuum</b> Timing vacuum.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Supply Refrigerant Transfer the refrigerant into the equipment tank.
	<b>New oil adding</b> Fill the new oil into A/C system.	Ś	System function Supply,Parameter setting,Exchange filling tank,Change refrigerant type



<b>Recharging</b> Recharge quantitative.	i	<b>Equipment info</b> System info,Servicer info, Equipment info.
Auto. Mode Automatically all the process.		Help Descriptions of the alarming code.

#### 5) Flushing-Recovery

- A. By this function, it will be able to clean out the refrigerant oil and oil sludge to exchange the refrigerant entirely to improve the performance of compressor. And also it will recover the refrigerant remained in the A/C system.
- B. Before flushing the pipeline of automotive A/C system, please turn on A/C system and run it for 5 to 10 minutes. And set it as the lowest temperature and medium wind.
- C. Turn off the automotive air conditioning.
   Warning: do not start the air conditioning during the flushing process! Otherwise, it easily causes damages to the air-conditioning and risk of accident!
- D. In order to achieve good flushing performance, the flushing time should be more than 20 minutes. General: the cleaning time for single-evaporator is 20 minutes, and that for double-evaporator is about 30 minutes. The longer the cleaning time, the better the cleaning effect.
   Note: The flushing time does not include the time of recovery process. Once the flushing is finished, the machine will run the recovery function automatically.
- E. Operations:



E-1: Select the Flushing Function

E-2: Set the flushing time.

E-3: Press the ENTER key to start.

- F. During the working, it can automatically carry out forward, reverse and pulse cleaning, and automatically discharge the used oil separated from the cleaning into the old oil bottle.
- G. After the cleaning process, it will automatically recover the refrigerant. According to the ambient temperature and the structure of the A/C system, the recovery process will last for 10-30 minutes. Please do not manually terminate the work.
- H. When finished, it'll stop automatically. And it will discharge the separated used oil again, and then shut down automatically and give a prompt.

Notice: it's normal for that there have action sound of the solenoid valve during the working process. Please do not stop it. The used oil can be drained out automatically.

Warning: In case of sudden power failure or accidental termination during the Flushing-Recovery process, please re select the Flushing-Recovery function. The cleaning time can be set shorter and then run again. It is important not to operate other functions.

#### 6) Recovery/Recycling

A. By this function, it will recover the refrigerant remained in the A/C system.



#### B. Operations:



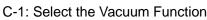
and press the ENTER key.

and press the ENTER key.

- B-1: Select the Recovery FunctionB-2: Press the ENTER key to start.
- B-3: After recovery over, it'll drain the used oil automatically.
- C. When finished, it will discharge the separated used oil, and then stop automatically.

### 7) Vacuum

- A. By this function, it will clean the water vapor out from the A/C system.
- B. It should be more than 15 minutes. Generally, it needs 15 minutes at least for the air conditioning only with front wind and 20 minutes for with the front and rear wind.
- C. Operations:



C-2: Set the vacuum time.

C-3: Press the ENTER key to start.

D. When finished, it'll stop automatically.

#### 8) New oil adding

- A. It must be able to do after vacuum process.
- B. Pour new oil into the new oil bottle.

#### Note:

- 1) Add new oil more 20ml than the used oil drained out to avoid the air into the air conditioning system.
- 2) Pour the new oil into the corresponding oil bottle. PAG oil into the PAG bottle and POE oil into the POE bottle. The two types of oil cannot be mixed, otherwise it will cause damage to the air conditioning system. Please check the vehicle technical manual or label, do not add the wrong type!
- 3) If a non-vacuum state is detected, the function cannot be run.
- C. Operations:



and press the ENTER key.

- C-1: Select the New oi adding Function
- C-2: Set the oil type. Must be correct!
- C-3: Select method: you can choose manual control, or set the filling amount.



Fill amount: 50 ml

C-3.1 If you select Manual control, press and hold ENTER key for injection, and release the key to stop.



FILL NEW OIL	R134a
Press the [Enter] key fill new oil.	to

C-3.2 If set the filling amount, press ENTER key after set, and it will stop automatically.

FILL NEW OIL	R134a	NEW OIL FILLING R134a	
Mannual fill new oil		Please wait	
Fill amount: 50 ml			

\*

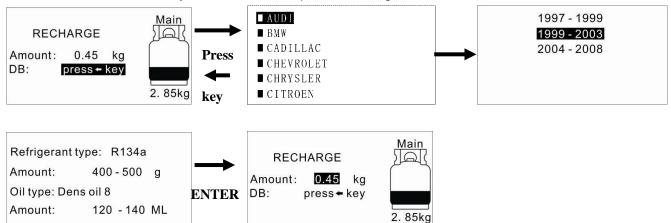
#### 9) Recharging

- A. Select the Recharging Function
- B. Set the recharge amount.
- C. Press the ENTER key to start.
- D. When finished, it'll stop automatically.

#### Note: The recharging amount setting as following.

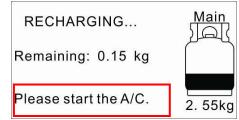
Method 1: Set the amount directly.

Method 2: Set the amount by the database. Steps as following:



and press the ENTER key.

**Note:** In the recharging process, if shows the menu, it means that you need to turn on the car air-conditioning to complete the recharging process. Later, you should supply new refrigerant into the tank.





#### 10) Auto. Mode

- A. Under this mode, all of the functions can be run full automatically after setting the parameters.
- B. Before running, must drain out the used oil entirely and fill enough new oil into the new bottle. Pay attention to the oil type.
- C. Operations:



and press the ENTER key.

a

ζ

	Flushing: NO	R134
or	V. time: 20 Min Oil type: PAG New oil: 50 ml Recharge: 0.60 Kg DB: press <del>«</del> key	2. 35
UI		

Flushing: YES R134a F. time: 40 Min

C-2: Set the all parameters.

C-1: Select the Auto. Mode Function

r. unio.	40 10111	
V. time:	20 Min	pra
Oil type:	PAG	
New oil:	50 ml	
Recharge:	0.60 Kg	
DB: pre	ess <b>←</b> key	3. 35Kg

C-2: Press the ENTER key to start.

D. When finished, it'll stop automatically.

DB

11) Database

igsquire Here you can read the refrigerant type and filling amount and the refrigerant oil type and

filling amount of the automotive.

#### 12) Equipment Maintenance



Exchange dry-filter
 Clean pipe of the uint
 Calibration
 Drain used oil
 Empty internal refrigerant
 Vacuum system pipeline

#### 12-1) Exchange dry filter

- A. The dry filter must be exchange when it reaches the life time. There will give a message.
- B. If not exchange the dry-filter timely, it will not be able to run the recovery, flushing and supplying functions.
- C. Operations:
  - C-1: Please check the ID of the dry-filter at the label. Which is the SN.
  - C-2: Select Exchange dry-filter Function and press ENTER key.
  - C-3: Input the ID.

C-4: And then do step by step as the information.



#### Note: Please attention the mounting direction of the dry-filter.

#### 12-2) Clean pipe of the unit

- A. Through this function, it can effectively remove the oil mist and trace moisture in the internal pipeline of the equipment, and ensure that the system is clean and pollution-free.
- B. After a period of use, such as 3months, it should be run this function.
- C. Operations:
  - C-1: Power on, select refrigerant type, then select Equipment Maintenance.
  - C-2: Select Clean Pipe of The Unit function and press ENTER key.
  - C-3: Connect the hoses and couplers well to the coupling side of the equipment, and open the couplers.
  - C-4: And then press ENTER key to run.

Warning: this function is performed according to the type of refrigerant.

#### 12-3) Calibration of load cell (operate by professionals)

- A. When the load cell is not precise, it needs to be calibrated.
- B. You need input the password 1510 before use this function.
- C. If do the calibration of main tank load cell, please prepare a 10~20kg weight. If do the calibration of oil bottle load cell, please prepare a 1-3kg weight.
- D. Follow the prompts step by step.
   Note: if here have some programs, please check according to the messages.

#### 12-4) Drain used oil

- A. It can control the used oil drained manually.
- B. Select Drain Used Oil function and press ENTER key.
- C. Press and hold ENTER key to drain, and release the key to stop.

#### 12-5) Empty internal refrigerant

- A. Through this function, the refrigerant in the equipment can be emptied.
- B. It is necessary to use another refrigerant recovery equipment (say as MM).
- C. Operations:

C-1: Connect the HP & LP ports of the equipment with the HP & LP ports of the MM. Pay attention to the type of refrigerant.

- C-2: Select Empty Internal Refrigerant function and press ENTER key.
- C-3: Confirm the pipes connected well, and press ENTER key.
- C-4: Run Recovery function of MM.

C-5: After recovery end, stop and power off the MM. And then press ENTER key to the next step.

C-6: Wait for a moment. When it shows END, the pipes connected with two equipment can be disconnected.

C-6: Run the Vacuum System Pipeline function.

Warning: this function is performed according to the type of refrigerant.



#### 12-6) Vacuum System Pipeline

Through this function, the internal pipeline of the equipment can be completely vacuumed to the factory state.

Before run this function, it must do the Empty Internal Refrigerant function.

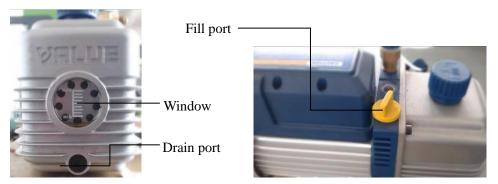
Operations:

- C-1: Power on, select refrigerant type, then select Equipment Maintenance.
- C-2: Select Vacuum System Pipeline function and press ENTER key.
- C-3: Connect the hoses and couplers well to the coupling side of the equipment, and open the couplers.
- C-4: And then press ENTER key to run.

Warning: this function is performed according to the type of refrigerant.

#### 12-7) Change vacuum pump oil

- A. When the pump oil became cream or machine display maintenance message, the vacuum pump oil must be changed.
- B. If not change the pump oil in time, the vacuum pump will be easily damaged.
- C. Operations:
  - C-1: Open the back-down cover.
  - C-2: Unscrew the block of the drain port to drain the old oil out entirely. Then re-back the block to the drain port.
  - Note: the oil drain hole is on the same side of the window or at the bottom. There are some differences in specifications.
  - C-3: Unscrew the cap of the fill port and then fill the new oil slowly into the vacuum pump until the oil level reach at the center site. Then re-back the cap to the fill port.



Note: the new vacuum pump oil cannot be filled too much into the vacuum pump otherwise it will spray out when working.

C-4: Re-back the cover.

#### 12-8) Discharge non-condensable gases

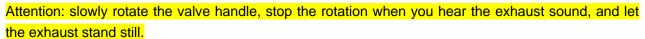
- A. Due to some uncontrollable reasons, after a period of time, some incompressible gas will be accumulated in the tanks. If the gas is too much, it will cause abnormal operation of the equipment.
- B. It is necessary to discharge non-condensable gases regularly, and it is recommended to do it once a month (if the use frequency is low, the exhaust cycle can be extended). Or, when the machine appear the High-pressure Alarm, it need do it immediately.

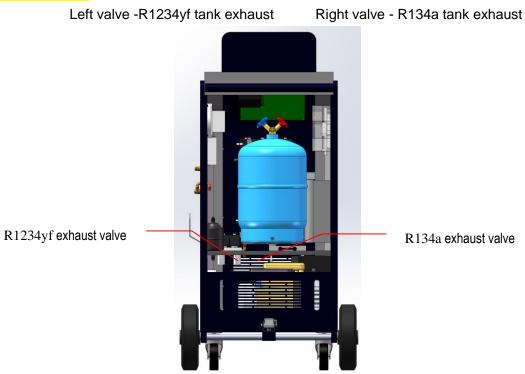


### C. Operations:

C-1: Remove the rear refrigerant tank and place it aside. Note: do not remove any pipes!

C-2: Open the back door, and there are two exhaust valves in the left middle of the machine. Open the valve slowly to discharge non-condensable gases.





C-2: The exhaust time is about 20 seconds.

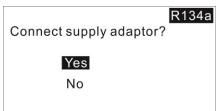
Warning: when exhausting, it is necessary to cut off the power supply and carry out it in a ventilated environment, and no fireworks are allowed!

# 13) Supply tank



- A. If the refrigerant amount in the main tank is less 3kg, the flushing function can't run any more, and if less 1kg, the recharging function also can't run any more, until supply enough refrigerant into the machine.
- B. Operations:

B-1: Power on, select refrigerant type, then select Supply Tank function.



B-2: Select if use the supplying connecter:

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B-3.1: If use the supplying connecter, the pipeline connection is as follows:

Fitting the supplying connecter to the port of fresh refrigerant tank.

Note: it should connect to the liquid port of fresh refrigerant tank. If has no liquid port, please place the fresh refrigerant tank upside down.

Connect the HP coupler to the supplying connecter and open it.

B-3.2: If don't use the supplying connecter, the pipeline connection is as follows: Connect the port of fresh refrigerant tank to the LP port of equipment.

Note: it should connect to the liquid port of fresh refrigerant tank. If has no liquid port, please place the fresh refrigerant tank upside down.

- B-4: Open the valve of fresh refrigerant tank.
- B-5: Set the supplying amount and press ENTER key to run.

Note: Amount of supplying: Setting the amount according to remain amount in the tank. Suggestion: supplying amount = (4.5~5) - remained amount.

B-6: When alarming, please close the valve of the fresh refrigerant tank, upright it and press ENTER key to confirm.

B-7: After the refrigerant in the pipeline is recovered, the equipment stops automatically. Then install the quick coupling.

Special declare:

When the refrigerant is supply to the new equipment, due to the vacuum state of equipment system, some refrigerant will remain in the pipeline and components when supplying refrigerant to tank, resulting in the actual amount of refrigerant recovered will be more than that shown by the equipment, which is normal.

■ LANGUAGE

Units

# 14) System function

Parameter setting



14-1) Language

Change the language



#### 14-2) Units

# 15) Equipment info

	<ul> <li>System inquiry</li> <li>Servicer info</li> <li>Equipment info</li> </ul>
i	

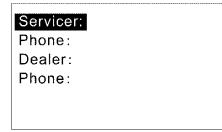
#### 15-1) System inquiry

Here you can check the working status of the machine.

Running status			
Compressor:	10	h	
V-pump total:	20	h	
V-pump cycle:	10	h	
Dry-filter:	10	kg	
Machine tatal:	26	times	

#### 15-2) Servicer info

Here you can set and check the servicer and dealer information.



The way for setting:

 $\begin{array}{l} \mbox{Press} & \overleftarrow{\mbox{$\square$}} & \mbox{and} & \overrightarrow{\mbox{$\square$}} \\ \mbox{Use the} & \overleftarrow{\mbox{$\square$}} & \mbox{and} & \overrightarrow{\mbox{$\square$}} \\ \mbox{Weys to select position} \end{array}$ 

Use the  $\widehat{}$  and  $\widehat{}$  keys to set the content.

#### 15-3) Equipment info

Here you can check the SN, hardware version, software version etc.

 SN:
 842501000001

 Software version:
 V3.0.0/V3.0

 Hardware version:
 V1.2

 DATABASE:
 V1.0

 MFD:
 2019-11 -13



# 16) Help



Here you can check all of the help messages.

Declare:

We reserve the right to modify the contents of this document without prior notice to our customers.