

SIEMENS

*Operating Service Manual  
GA 3000 Beverage Dispenser*



[www.mrbreakmate.com](http://www.mrbreakmate.com)

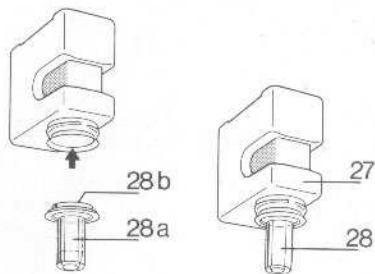
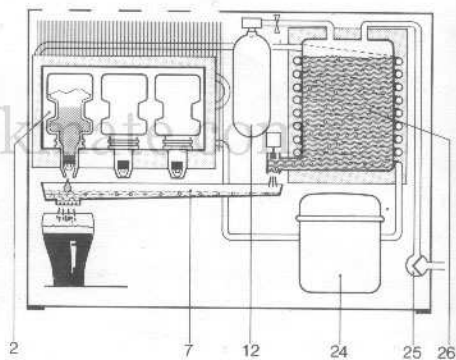
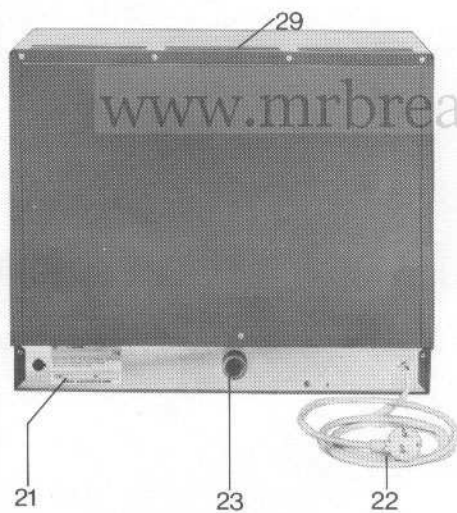
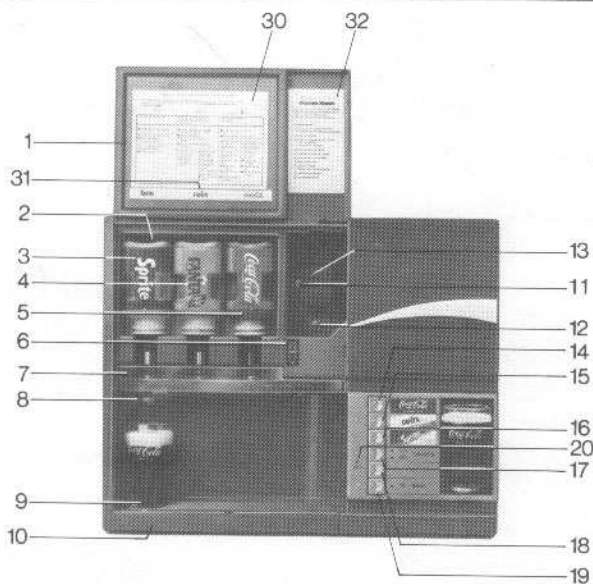
## Table of contents

Please open out the fould- out page showing the illustration.

	Page
<b>GA 3000 Description</b>	3
<b>Nameplate Information</b>	4
<b>Safety Instructions</b>	4
<b>Basic Dispenser Functions</b>	5
<b>Setting up the Appliance</b>	6
<b>Connecting Water and Power</b>	6
<b>Certain Pause in using the Dispenser</b>	6
<b>Placing Dispenser into Service</b>	7
• Inserting the Syrup Cartridge	7
• Starting Dispenser	8
• Putting in CO <sub>2</sub> Cylinder	8
• Dispensing Beverage	8
<b>Cleaning Dispenser</b>	10
• Cleaning Mixing Channel	10
• Cleaning Drip Tray and Grill	10
• Cleaning Syrup Cooling Compartment	11
• Cleaning Valves (Dosing System)	11
<b>Trouble shooting Guide</b>	12
<b>Replacing Syrup Cartridge</b>	12
<b>Replacing the CO<sub>2</sub> Cylinder</b>	12
<b>Service</b>	13

[www.mrbreakmate.com](http://www.mrbreakmate.com)

# GA 3000 Description



## Nameplate Information

- 1 Cover lid (syrup compartment)
- 2 Syrup cooling compartment
- 3 Left syrup cartridge with valve
- 4 Middle syrup cartridge with valve
- 5 Right syrup cartridge with valve
- 6 On/Off switch
- 7 Mixing channel with cover
- 8 Drink outlet
- 9 Position for cups
- 10 Drip tray and grill
- 11 Pressure indication pin (red)
- 12 CO<sub>2</sub> cylinder
- 13 Lever
- 14 Selection switch (middle syrup cartridge)
- 15 Selection switch (right syrup cartridge)
- 16 Selection switch (left syrup cartridge)
- 17 Filling quantity-reversing switch
- 18 Empty button
- 19 Super button
- 20 CO<sub>2</sub> empty indication
- 21 Nameplate
- 22 Power cord
- 23 Connection for water supply hose
- 24 Compressor
- 25 Water pump
- 26 Carbonator
- 27 Syrup package
- 28 Valve
- 28a Valve housing
- 28b Valve plunger
- 29 Ventilation openings
- 30 Failure indication label
- 31 Reference label
- 32 Label „placing into service“

Voltage rating and model number are indicated on the nameplate at the rear of the dispenser.

- Check voltage indicated on the nameplate is the same as the outlet voltage.

This appliance complies with the EEC directions No. 76-889 for radioshielding and is tested for leakage.

## Safety instructions

- **Make sure the ventilation openings are not covered to ensure good ventilation of dispenser. At least 4 inches of free space above the ventilation openings is recommended.**
- **Water pressure: min. 0,1 MPa (1 bar)  
max. 0,8 MPa (8 bar)**
- **Check for water leaks at the water supply hose connections when the supply tap is fully opened (full line pressure).**
- **Note information sign on CO<sub>2</sub>-cylinder.**
- Only use a water hose that is DIN UDE 700 T 600 approved when completing the connection to the water mains.

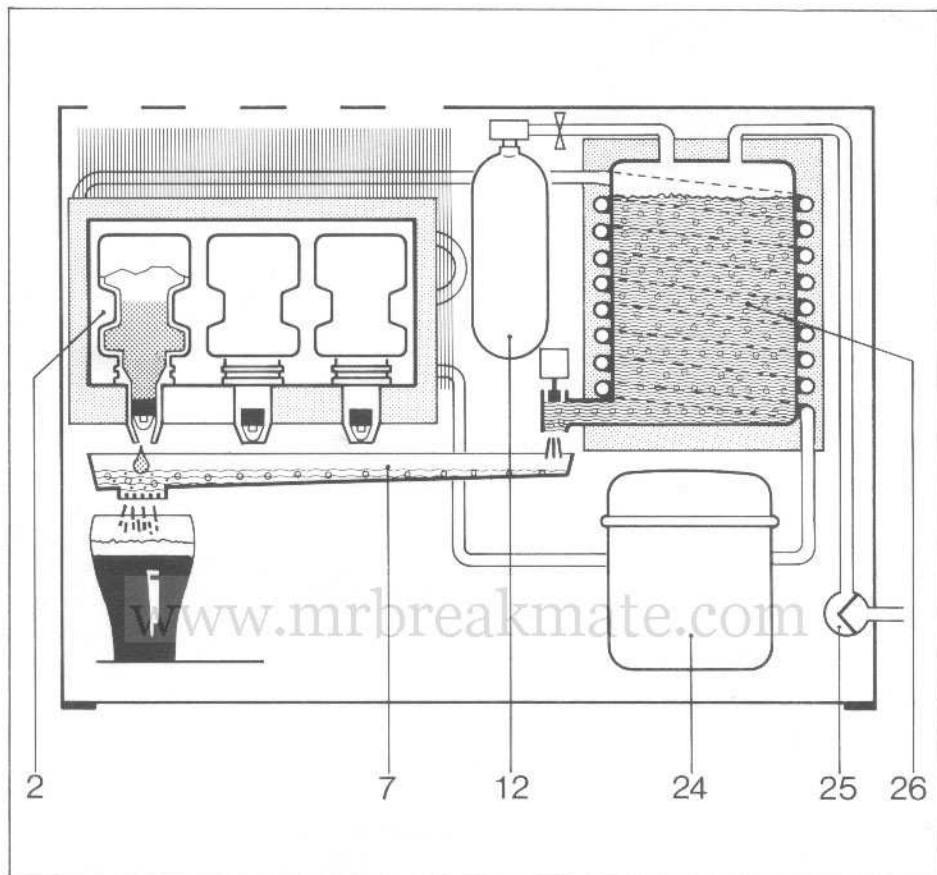
## General instructions

- Storage instructions for the syrup cartridge and the CO<sub>2</sub>-cylinder are indicated on the respective packaging and must be followed.

## Important information about the GA 3450:

- Do not connect dispenser to permanent water supply!
- Use refillable tank as drinking water source!

## Basic Dispenser Functions



The GA 3000 soft drink dispenser produces high quality, cold carbonated soft drinks.

The pump (25) supplies tap water to the carbonator (26) where it is chilled by the cooling system (24) and carbonated by CO<sub>2</sub> gas from cylinder (12). The cooling system (24) also cools the syrup compartment (2) via a separate cooling coil. When one of the three buttons (14-16) is selected, the chilled and carbonated water is dispensed into the mixing channel (7) together with a measured amount of syrup. The mixed beverage is delivered into a cup.

## Setting up the Dispenser

- Set up the dispenser on a level surface, i. e. working plate, sideboard etc.
- Make sure that ventilation openings (29) on upper side of dispenser are not covered to ensure good ventilation of the unit. Make sure that there is at least 4 inches of free space above the ventilation openings.

## Connecting Water and Power

A cold water connection having a pressure of 0,1 MPa (1 bar) minimum and 0,8 MPa (8 bar) maximum is required.

- Connect an approved 3/8" I. D. flexible tubing to the dispenser with adapter supplied.
- Connect the other end of the hose to a water tap of the same thread.
- Test for leaks after opening the water tap completely (full pressure).
- Insert power cord (22); plug into safety outlet. Use only a grounded outlet!

### Indication:

- Set up dispenser on level surface.
- The dispenser is protected against pressure loss and damage caused by water in the appliance. Since during operation the water tube is constantly subject to full water main pressure we recommend to use a water controller i. e. make Siemens type 5 WA 3000.
- No manipulation whatsoever must be made on the pressure controller of the dispenser. Repair and maintenance work must only be effected by the manufacturer or experts who are authorized by the manufacturer.

### Pause in using the dispenser

- Turn off the water supply if not using the dispenser during a long period of time, i. e. vacations or plant shut-down, to avoid water damage.
- If kept in the dispenser during a long period of time in an uncooled state the water quality will suffer. Therefore the dispenser should be emptied.

www.mrbreaking.com

## Placing dispenser into service



Applicable for first placing into service and each time the water hose is taken off and connected again.

## Inserting the Syrup Cartridge

- Open cover lid (1)
- Pull out mixing channel (7)
- Tear off foil seal from syrup package (33).
- Place valve (housing with plunger - 28) on opening of syrup cartridge.

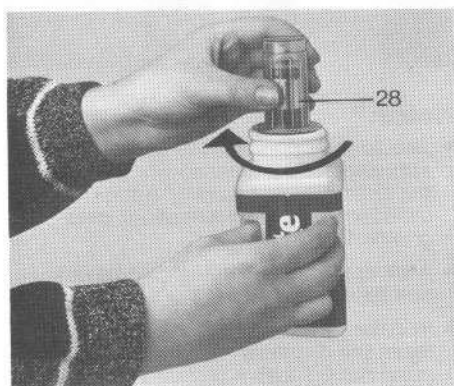
Note color designation:  
Valve red - Coca-Cola, Fanta, Sprite  
Clear - diet Coke

- Fasten valve onto cartridge by turning it clockwise until it stops.

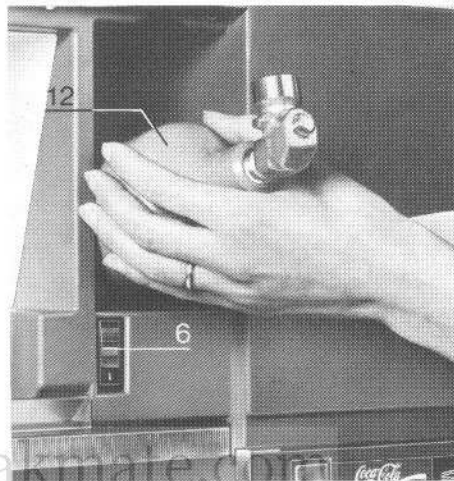
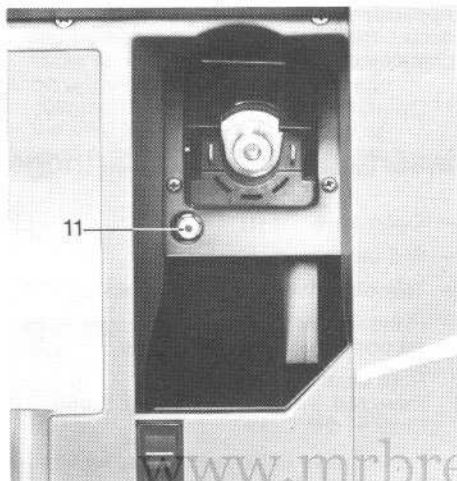


### Attention:

- Do not remove valve until container is empty or the container will be unusable.
- Turn syrup cartridge **quickly** upside down and install into dispenser (5).
- Note designation of the reference labels (31).
- Insert mixing channel and make sure it clicks in on both sides.



## Starting Dispenser

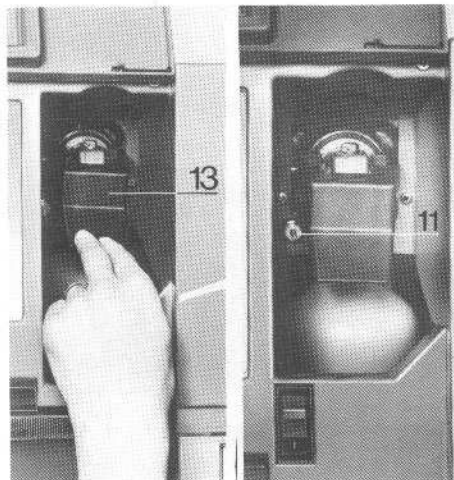


### Vent carbonator via indicator pin (11)

- Open water tap.
- Switch on dispenser with on/off switch (6). Pump starts to run and will fill the carbonator with water.
- CO<sub>2</sub> empty indication flashes.
- Wait until pump stops (no more noise); the carbonator is filled.

### Plugging in CO<sub>2</sub> Cylinder

- Remove security cap on full cylinder (12).
- Install full cylinder with the valve connection facing straight inward and into the compartment (12).
- Push lever (13) downward until latched; the red pressure indicator pin (11) will become visible.
- CO<sub>2</sub> empty indication extinguishes.



### Notes:

- Should the LED's start to flash after approximately 2 minutes when turning on the dispenser or plugging in the CO<sub>2</sub> cylinder, see „troubleshooting“ paragraphs 1.1 and 1.2.
- After approx. 30 minutes cold beverages can be dispensed.
- In order to ensure proper operation, leave the dispenser running. It will only consume 0,7 kwh a day on the average.



## Dispensing Beverage



- Place cup under outlet (8) (white arrow).

### Beverages 0,2 liters or 0,3 liters

The adjusted drink size 0,2 liters or 0,3 liters is indicated by the pilot lamp (LED).

- If drink size is to be changed push selection button (17).
- Select the desired product. Briefly push selection button (14), (15), (16). The beverage is delivered automatically.

„Super Operation” (only for increased need)

- Push „Super” button (LED flashes)

**In this position the dispenser has an increased cooling capacity, i. e. more beverages are delivered, if not drawn uninterruptedly.**



Clean the exterior of the dispenser with a soft, damp cloth. Do not use detergents, abrasives, or other chemicals. Do not use any oils or lubricants on dispenser exterior parts.

### Cleaning the mixing channel

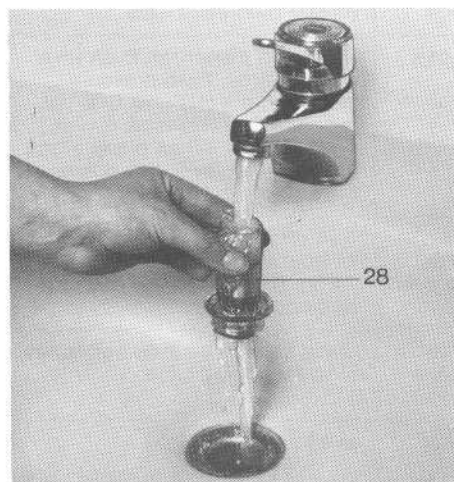
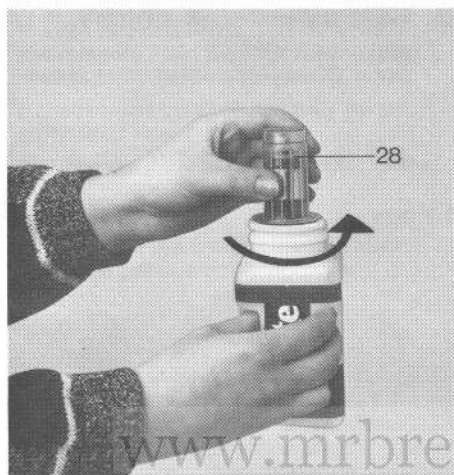
- The mixing channel and cover must be cleaned daily.
- Open cover lid (1).
- Pull out mixing channel (7).
- Take off cover.
- Rinse thoroughly with warm water.
- Take out strainer and clean it with a brush if necessary.
- Put on cover.
- Insert mixing channel into dispenser and make sure it clicks in on both sides.
- Close cover lid (1).

### Cleaning the drip tray and grill (daily)

- Pull out drip tray (10).
- Remove grill.
- Rinse both parts with warm soapy water.
- Reinstall grill.
- Insert drip tray until it stops.

### Cleaning syrup cooling compartment

- Open cover lid (1).
- Switch off dispenser using on/off switch (6).
- Pull out mixing channel (7).
- Take out all syrup cartridges. Wait until cooling compartment is defrosted. Clean syrup cooling compartment with warm water (wash cloth). Dry with a clean, lint-free cloth.
- Replace syrup cartridges. **Note position of selection switches.**
- Switch on dispenser.
- Close cover lid.



### Cleaning valves (dosing system)

- When **exchanging** the syrup cartridges, you must clean the valves.
- Take out empty syrup cartridge, and turn it over (valve upward).
- Loosen the valve (28) from the syrup container by turning it counter-clockwise. **The empty syrup container is not reusable.**
- Clean valve with warm water by shaking it slightly.
- Attach valve on new syrup cartridge. Note color designation!
- Replace syrup cartridge (refer to page 7).

### A. Syrup cartridge empty.

If you push one of the selection switches and get a weak drink or soda water only, the respective syrup cartridge is empty and must be replaced.

### B. CO<sub>2</sub> cylinder is empty.

Amber LED light will blink on selection panel. CO<sub>2</sub> cylinder must be replaced.

## Troubleshooting Guide

Problem	Possible cause	Solution
1. Green control lamps (LED) flash.	1.1. Water tap is closed	Open water tap. Switch off dispenser, vent, switch on dispenser. When pump stops (noise) reconnect CO <sub>2</sub> .
	1.2. Air in supply hose.	Switch off dispenser. Push lever <b>(13)</b> upwards. Push pressure indicating pin <b>(11)</b> until CO <sub>2</sub> gas is completely released. Switch on dispenser. When pump stops (noise), push lever <b>(13)</b> downward.
	1.3. Leak within the dispenser. Safety mechanism responds	Turn off machine. Do not use for 24 hours. Turn on machine. If LED's flash again, call customer service.
	1.4. Filter screens within water supply hose clogged.	Clean filter screens on both sides of water supply hose.
2. Drink too warm.	Too little water in the dispenser.	as 1.1 and 1.2
3. Mixing channel flows over.	Strainer clogged.	Clean mixing channel and strainer.
4. Drink is too weak or only soda water is delivered.	Syrup cartridge empty. (see A)	Plug in full syrup cartridge.
5. Amber pilot lamp flashes.	5.1. CO <sub>2</sub> cylinder is not coupled correctly.	Push lever <b>(13)</b> fully downward
	5.2. CO <sub>2</sub> cylinder is empty. (see B)	Plug in full CO <sub>2</sub> cylinder.

## Service problems

In case of operating problems which cannot be remedied by the actions described above, call customer service.

Repairs must be executed only by an authorized agent.

The nameplate is fixed at the rear of the dispenser.

To facilitate servicing, indicate the FD-number and the 6-digit serial number to the customer service operator.

[www.mrbreakmate.com](http://www.mrbreakmate.com)

## Short Instructions for Placing into Service

- Vent carbonator – push red indicator pin
- Connect water supply hose (check for tightness)
- Plug in power plug
- Lift cover lid; pull out mixing channel
- Tear off foil seal from syrup cartridge.
- Turn on dosing valve.
- Turn syrup cartridge **quickly** in use position.
- Insert syrup cartridge into dispenser
- Insert mixing channel
- Open water tap
- Switch on dispenser (wait until pump stops)
- Remove security cap on full CO<sub>2</sub> cylinder
- Install full CO<sub>2</sub> cylinder and connect
- Draw beverage.

The beverage temperature complies with the CC specifications:  
for pre-cooled syrup after approx. 20 – 30 min.  
for uncooled syrup after approx. 6 hours.

Siemens Electrogeräte GmbH

We reserve the right for modifications.

195.139 381 018810. Es.