

TRUFROST & BUTLER

USER MANUAL

Beverages Dispenser:
Turia-12

Contents

Chapter 1	Safety precaution	1
Chapter 2	exploded view.	2
Chapter 3	Installation and Testing	3
Chapter 4	Instruction for use	6
Chapter 5	Daily clean and maintenance	7
Chapter 6	Trouble shooting	9
Chapter 7	Technical parameter and Electrical diagram	11



Chapter 1, Safety precaution

Notice :



- ◆ prevent water and conductive liquid entering into the machine;
- ◆ please do not throw stick and other things into the machine;
- ◆ when the machine is in moving process, the angle should not beyond 45°;
- ◆ The distance between ventilation slot and wall should not be less than 20CM, to keep good ventilation, dry and clean.
- ◆ Please place the machine away from heat sources to avoid direct sunlight; the machine cannot be placed in the damp environment.

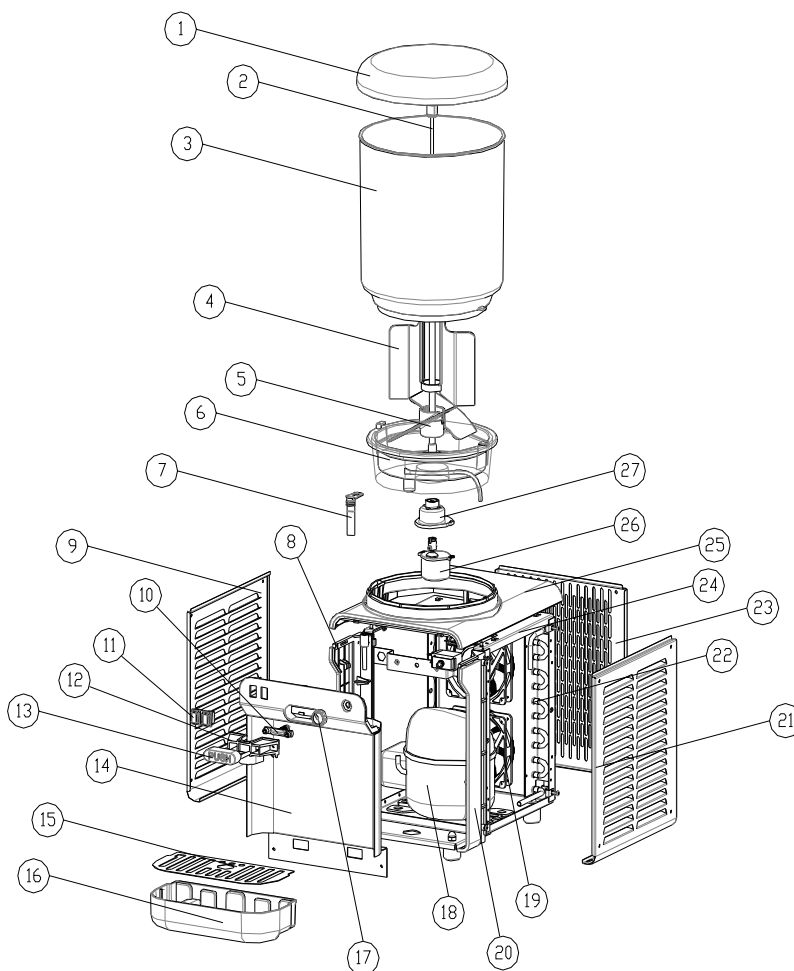


Safety warning :

- ◆ The machine should be operated by professional or others have been trained.
- ◆ If the power wire is damaged, it should be changed by the professionals to avoid danger.
- ◆ When stop using, disassembling or do some cleaning, please cut off the power.
- ◆ To avoid electric shock, please do not pour water on the plug, motor and other electrical components.
- ◆ The foam layer material is flammable, please do not dispose it arbitrarily or handle it by yourself. It should be reclaimed and processed by the designated department in accordance with the relevant provisions of the State.
- ◆ To ensure personal safety, please use the socket that is in accordance with national electrical regulations. The voltage and current values should be consistent with the nameplate (if using an external outlet, the current value should be used to connect the appropriate wiring board), and the machine should be properly grounded.

- ◆ Ensure that the power supply is the same as the nameplate, and the working voltage bias between rated voltage is $\pm 10\%$, or it may cause the stopping start-up of the machine, the damage of electrical control panel and compressor, or abnormal sound when compressor works. In this condition, it's necessary to install an appropriate automatic voltage regulator.

Chapter 2, exploded view

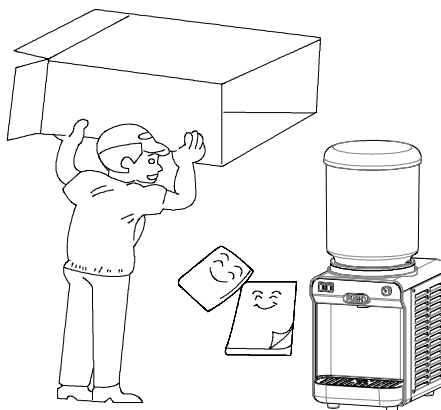


No.	Item	No.	Item	No.	Item	No.	Item
1	Tank cover	8	Decoration panel (left)	15	Cover for drip tray	22	Condenser
2	Shaft for beater	9	Side panel (left)	16	Drip tray	23	Rear panel
3	Tank	10	Dispensing valve slider	17	Temperature control knob	24	Frame of the machine
4	Beater	11	Switch	18	Compressor	25	Supporting block
5	Beater accessories	12	Dispensing valve base	19	Fan motor with blade	26	Beater motor
6	Evaporator	13	Dispensing button	20	Decoration panel (right)	27	Fixed plate of motor
7	Dispensing hose	14	Front panel	21	Side panel (right)		

Chapter 3, Installation and Testing

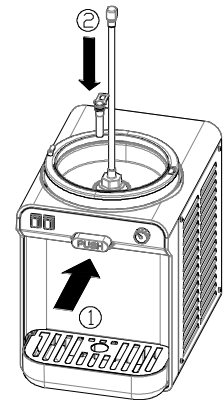
A. Installation

- a) Unpack the package and take out the machine to the proper position. Then check the goods according to the packing list. Please contact with distributors if you have any question.
- b) Installation of the Dispensing Hose



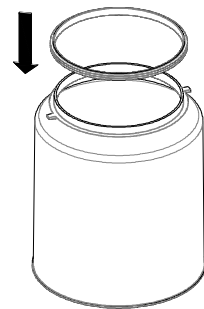
- a. Push the dispensing button
- b. Put the dispensing hose into the dispensing hole of the supporting block and keep the dispensing hose fit closely with the supporting block. And then release the dispensing button.

Warning: It is strictly prohibited to add beverage or water in the tank before discharge tube is installed in place.



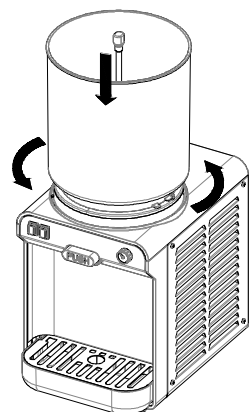
3) Installation of the Tank Assembly

- a. Please turn the bottom of the tank up and put it on the flat platform, and fix the o-ring to the bottom of the tank.
- b. Turn the tank over, use water to make the edge of the supporting block smooth. And install the tank on the supporting block. Then use your hands diagonally to hold the tank and press downward. Finally make it on the right place. Rotate the tank and keep the tank fixed with the evaporator and keep the tank horizontal seeing from the front view of the machine.
- c. Put the beater in the shaft for beater, and turn the beater a few times to make it falling into the shaft for beater completely.
- d. Put the tank cover on the tank.



4) Cleaning of the Machine before Starting

- a. Disassemble the tank assembly (Please refer to installation method when disassembling it). Please use the mix of neutral downy detergent and warm water to wash the parts. Please



use the lint-free towel to dip detergent to wash the machine

- b. Please rinse these parts with clean running water, and use the lint-free towel to dip water to wash the machine.
- c. Please use the lint-free towel to dry the parts.
- d. Please use detergent to wash the drip tray and the cover for drip tray, and use pure water to make them clean. Then install the drip tray on the front panel and then put the cover on the drip tray.

5) Power Connection:

Please use the socket that is in accordance with national electrical regulations. The voltage and current values should be consistent with the nameplate (if using an external outlet, the current value should be used to connect the appropriate wiring board), and it should be properly grounded. This series have 3-wire grounding plug, do not remove the third pin (third pin for the ground wire) in any case. When the machine is installed in place, the plug should be accessible and convenient for plug-in and pull-out. Make sure all the switches are in the "OFF" position. Put the power plug into the power socket and make sure that the ground wire is connected.

If the voltage ranges is too much when machine works (more than $\pm 10\%$ of the rated voltage range), it may cause the stopping start-up of the machine, the damage of electrical control panel and compressor, or abnormal sound when compressor works. In this condition, it's necessary to install an appropriate automatic voltage regulator.

B. Testing

After the tank is installed, add some drinking water in the tank and check whether there is a leakage on the bottom of the tank and dispensing valve. If there is a slight leakage on the bottom of the tank, please use your hand diagonally to hold the tank and press it downward to make sure the tank and gasket fixed in the right

place. If there is some water dripping from the dispensing valve, please press the dispensing button several times and check whether it is stuck.

Chapter 4, Instruction for use

A. Drinks preparation

1) Ingredients include dried fruit powder, concentrated fruit juice, syrup or plum juice and drinking water. Mix the fruit juice and the drinking water according to a certain proportion (for delicious taste). Stir the mixed liquid completely in a clean container. Relatively large granulated particles are not allowed, otherwise the dispensing hose will be easy to block.

2) The temperature of the mixed liquid should below 35°C to make the cooling effect better.

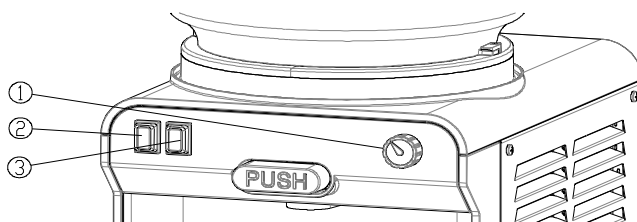


Warning:

1. Please use or connect to the drinking water.
2. Formula raw materials should meet the Food Hygiene License requirements.

B. Usage and Operation Method

- 1) Instruction of buttons



- | | | |
|------------------------|--------|----------------------------------|
| 1. Temperature Control | Knob | Turn clockwise, cooling stronger |
| 2. Power / Stirring | Switch | |
| 3. Cooling | Switch | |

2) Pour the drinks into the tank and ensure there is at least 2-3cm away from the top of the tank.

3) After pouring the drinks into the tank, firstly plug in the power socket, secondly turn on the Power/ Stirring switch and Cooling switch, and then the machine starts to work. When it reaches the setting temperature, the machine stops cooling automatically but the beater still works.



Warning: If cooling for a very long time, it may cause machine parts damage and affect the service life of the machine. Please turn off the Cooling switch during periods of non-business.

4. After turning off the Cooling switch, please wait at least 3 minutes to turn on the Cooling switch again. Otherwise it will cause damage to the compressor.

5. The Power/Stirring switch is the main switch. With the Power/Stirring switch off, the Cooling switch is invalid.

Chapter 5, Daily clean and maintenance

A. Cleaning

- 1) Wash all parts of tank thoroughly in mild detergent and warm water (refer to page 7 and 8 for disassembly methods).
- 2) Rinse these parts in clean running water.
- 3) Reassemble all parts of tank.
- 4) Pour sanitizer and water into bowl. Turn on beater motor and allow sanitizer to flow inside of the bowl for a period of time.
- 5) Drain liquid through the valve completely and thoroughly during each step of the cleaning process (wash, rinse, sanitize, rinse).

Notice

1. The machine should be cleaned and disinfected every day.
2. Please check the O-ring after cleaning the machine, and it must be replaced if it is damaged.
3. Please do not use high-temperature for sterilization or water more than 60°C to clean the tank and spare parts, or they are in danger of bursting.

B. Maintenance

Use a cleaning cloth or brush to clear away all the dust and attachments on the surface or inside of the machine regularly. To avoid equipment leakage of electricity caused by damp, please do not flush the interior of machine with water directly. Before cleaning, please cut off power and disconnect the plug, it is very important.

- 1) Cut off the power firstly, and disassemble all the panels of machines, then clean

the dust attached to compressor, copper pipe and bottom panel. Using water is forbidden.

2) After being used over a period of time, the condenser maybe thick with dust, and this will affect radiating heat and cause bad cooling, so it needs periodic cleaning (every half year)

Cleaning methods:

Step 1: Disconnected the main power switch.

Step 2: Remove the rear panel and side panels.

Step 3: Clean dust with tools such as vacuum cleaner, high-pressure air and hairbrush, be careful while cleaning to avoid damaging the fins of the condenser.

3) Check all the screws and nuts if they are loose or rusty, and fasten or replace them to avoid causing noise.

4) Finally, assemble all the panels, fasten all screws, and clear the surface.

Chapter 6, Trouble shooting

The following table lists some general simple malfunction the machine may have, please follow the methods in the table to solve the malfunction. If the malfunction still exists or the malfunction is kind of complex, please find professionals to repair the machine to avoid some unnecessary losses. Please do not handle it hastily.

Trouble	Possible cause	Remedy
Compressor runs but not refrigerate	faulty compressor	replace compressor
	loss of refrigerant	charging refrigeration
	faulty fan motor	replace motor
Compressor do not	faulty thermostat	replace thermostat

run	faulty switches	replace switches
	faulty electrical connection	locate and correct
	defective overload protect	check the overload protector and replace it
Leakage of the tank	Worn or nicked bowl gasket or improperly installed	Reinstall gasket or replace gasket
Leakage of valve	Worn or nicked valve O-ring	Reinstall or replace
Leakage of dispensing valve	Handle has not returned	Return handle
Less efficiency	Dust and lint in condenser	Cleaning the fins of condenser
	Broken fan motor	Replace fan motor
No heating	Faulty switches	replace it
	Heating plate is broken	replace it
	Time relay is broken	replace it
	Temperature sensor is broken	replace a new one
The machine cannot stop cooling or heating	Transformer or PC Board is broken	replace it
	Time relay is broken	replace it
	Temperature sensor is broken	replace a new one

Chapter 7, Technical parameter and Electrical diagram

- A. Technology parameters are on the nameplate
- B. The Electrical diagram is on the inner panel of the machine.