



User Manual

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Mavam User Manual Steam Unit

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NOTE:

This manual is for the daily use of the machine. For detailed data, technical diagrams, installation, and troubleshooting please see the applicable document.

Safety Warnings

Safety Messages

IMPORTANT Information for the Mavam Steam Unit

- **DISCONNECT FROM ALL POWER SOURCES BEFORE SERVICING**
- **Read the entire manual BEFORE operating this machine**
- **Steam and condensation from the steam wand discharge is HOT and may cause burns**
- **The steam wand tips become HOT during use, do not touch them - Use Caution!**
- **Always have the steam wand tip covered or inserted in the product to be steamed before turning steam on.**
- **Never remove the steam wand from the product that is being heated when the steam is on.**
- **Keep water and moisture away from any electrical device or live power**
- **Steam tank water can be heated to 260°F (126°C), use caution around this**

Warning Labels

ATTENTION! Wiring must conform to the current National Electric Code

CAUTION!

INSTALLER SUR UN CIRCUIT
COMPORTAINT UNE PROTECTION A
MAXIMUM D'INTENSITE DE # A or
equivalent.

CAUTION!

TO BE INSTALLED WITH # A
MAXIMUM OVERCURRENT
PROTECTION- or equivalent

WARNING!

Wiring must conform to the current
National Electric Code ANSI/NFPA No.
70 or Canadian Electric Code Part 1,
CSA Standard C22.1, and local
building codes. Refer to wiring
diagram. See nameplate on boiler box
cover for minimum circuit ampacity and
maximum over-current protection size.

WARNING!

Electric Shock Hazard. Can cause
injury or death. Unit must be
grounded in accordance with
national and local codes.
Line voltage is present at all
components when unit is not in
operation on units with single-pole
contactors. Disconnect all remote
electric power supplies before
opening access panel. Unit may have
multiple power supplies.

SAFETY WARNING:

The risk of serious burns or other bodily injury is always increased when working on a hot espresso machine. MAVAM LLC, is not responsible for personal injury can occur when servicing or maintaining any

Operational Setting Limits

The machine will limit settings and operation to these ranges. They are not user adjustable.

Steam Pressure	0.0 to 1.6 Bar
Steam Hose Temperature	100 to 178 C (212 to 350 F)
Power	Single Phase 220V 17 Amps

Interface Dimensions 9"/23cm L x 14" / 35.5cm D x 9" / 23cm H

Boiler Unit Dimensions 16" | 40.5cm L x 18" / 46cm D x 13" / 33cm H

Overview

Machine Description

The Mavam Under Counter Steam Unit is a stand alone single or dual steamer. There is one steam boiler with an interface for one or two countertop steam dispensers. Users can set the steam pressure from 0.0 (off) to 1.6 bar.

Machine Components

There are two parts to the Steam Unit. One undercounter boiler containing the boiler, electronics, and plumbing. The countertop steam dispenser has a steam wand, on/off button and an optional rinser.

Controls

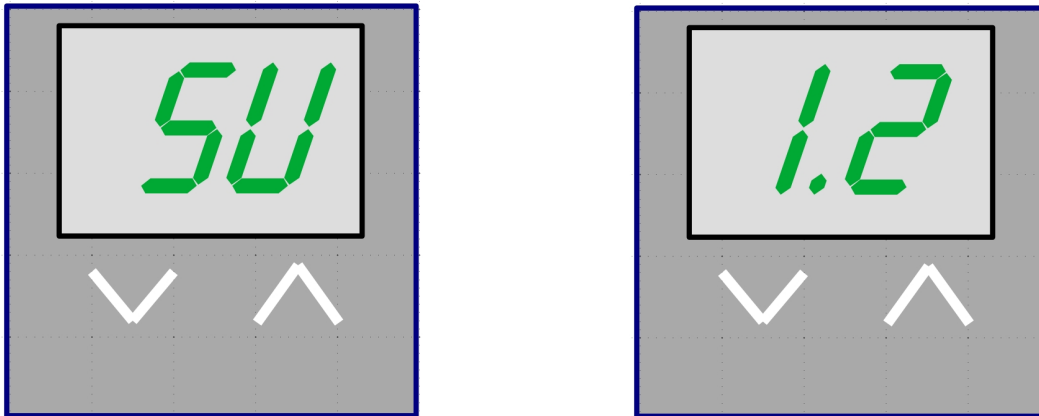
Steam Unit Controls

Power Switch: Power for the entire machine is controlled by the switch on the front of the Steam Unit. *Caution: while this removes power from the unit power is still supplied to the boiler unit from the main panel. Before working on or opening up the unit ensure power is removed from the main panel before beginning.*

Operation

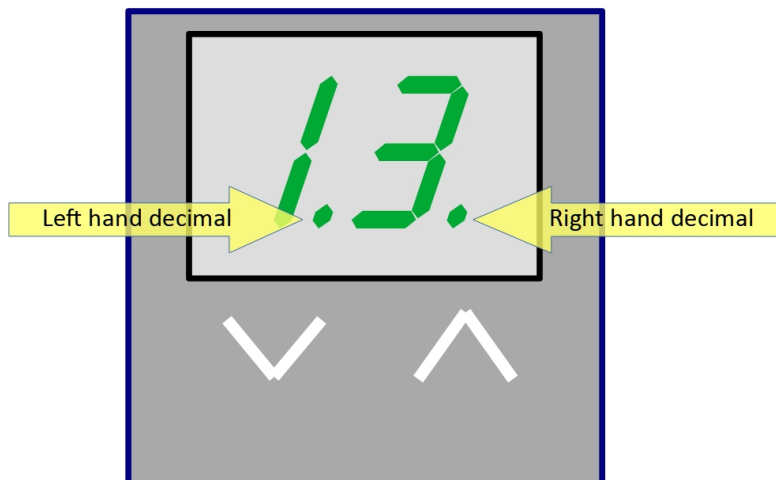
Start up

On power on the UI will display the type of controller then the version number. This unit is a SU (Steam Unit) Version 1.2



Normal Use

During normal use the UI LED will display the steam pressure, steam heat ON/OFF and water fill ON/OFF. Steam pressure is shown in BARS. The left hand decimal is the decimal point for steam pressure. When the decimal point is blinking the steam heater is ON. The right hand decimal point is normally off. When ON the steam boiler is filling.



User Interface

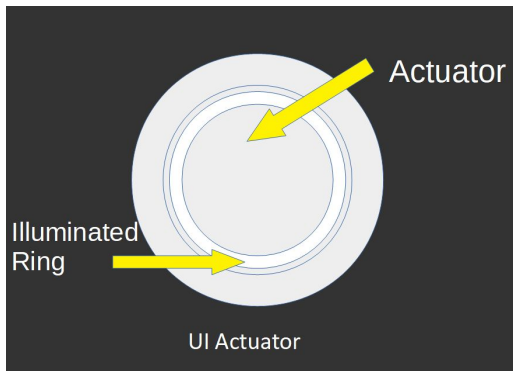
Steam box

The main control for the Steam unit is on the front of the under counter steam box. There is a two digit LED display and an UP and DOWN buttons.

Countertop Steam Dispenser

One ON/OFF button is on the steam dispenser with a light.

Actuators



Steam Actuator controls ON / OFF for steam.

General

Steam is controlled by the actuator on the countertop. When ON the light on the actuator will blink. Ready will be a steady light. Maximum time for steam is two minutes.

Steam Heat

In normal operation the steam boiler will heat the water to the set pressure. To make sure there is sufficient water for steam the heater will not turn on if there is no water sensed AND steam pressure is below 0.5 bar. Once water is sensed heat will turn on.

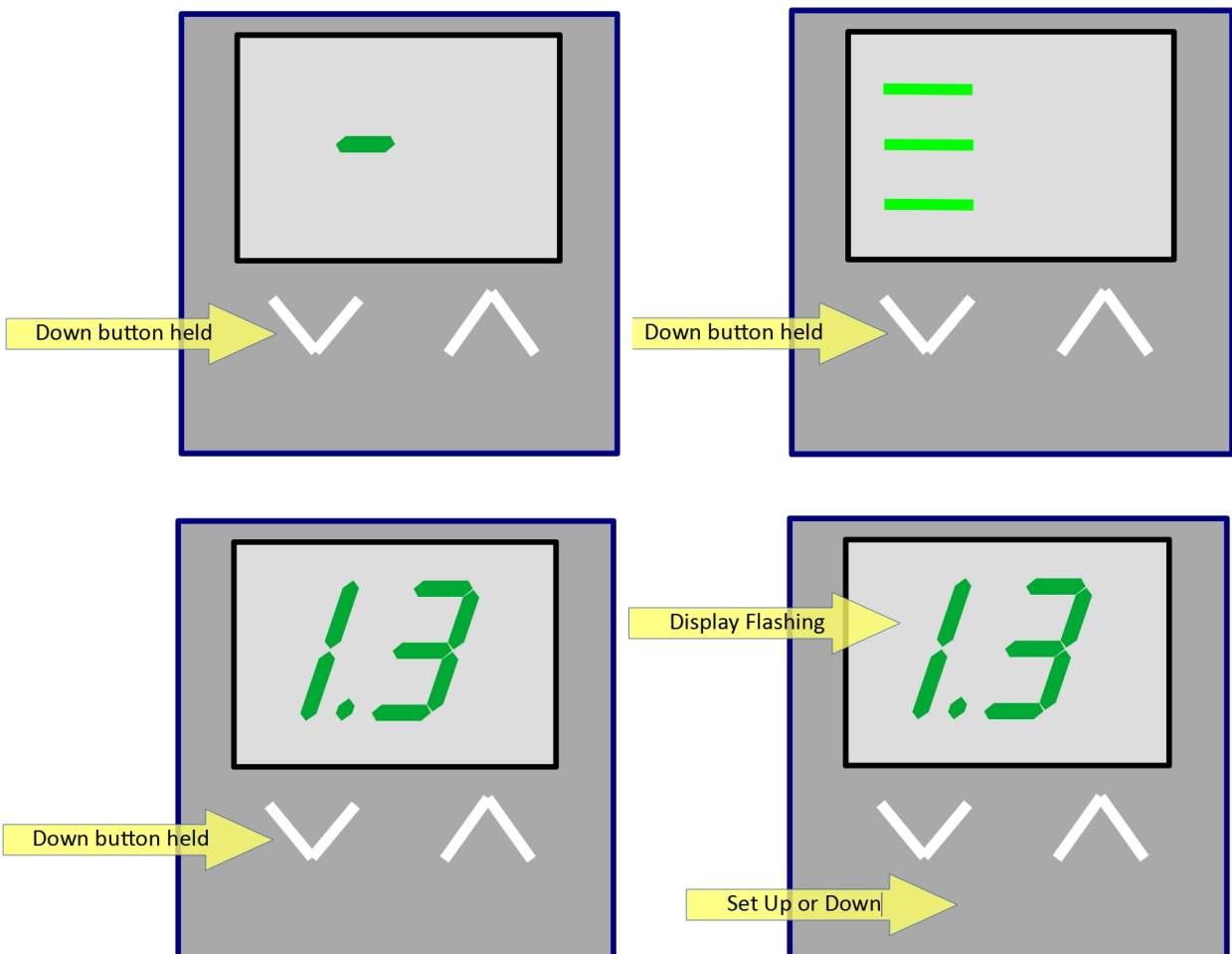
STEAM BOX INTERFACE INSTRUCTIONS

Settings

The user may set the steam pressure in BAR using the interface on the steam box. Pressure may be between 0.0 (off) and 1.6 bar.

Set Pressure

To set pressure press and hold either the UP or DOWN button. There will be a sequence of three displays. First a “-” above the button touched, then three dashes then the current pressure setting. To change the setting continue to hold until the display flashes. Then use the Up and Down button to set the pressure. To program the new setting just do not the buttons for at least twenty seconds. The display will stop flashing and the new setting will be programmed. To verify the current setting, release the button after you see the setting (not flashing). The current setting will be retained.



Error Messages

There are four error messages.

1. Low steam pressure “_ _”
2. Steam overpressure ‘OP’
3. Steam Heat timeout “SH”
4. Fill timeout “FL”

Low Steam Pressure

Pressure is below zero. This may indicate an error with the transducer or circuit board. If the steam boiler is heating this may resolve on its own.

Steam Overpressure

Steam pressure has exceeded set limits. This will turn off heat until pressure has returned below limits. This may be caused by a SSR relay error, Heater wiring issue, or damaged circuit board.

Steam Heat Timeout

This will only occur on startup (power on). This indicates that steam heat has been ON for ten minutes and pressure has NOT risen to at least 0.3 bar. This may happen if the SSR relay is not functioning, heater element not functioning, circuit board issue or no water in the steam boiler. If there is no water sensed the heat will not be on and may cause this condition also. If the steam boiler is full, reset the unit by turning off then on again and monitor the steam pressure. This may clear the condition.

Fill Timeout

This indicates that the steam boiler attempted to fill and exceeded the time limit. This may occur if water has been turned off, a solenoid is not functioning, the circuit board is damaged, or a wiring issue. This can only be cleared by resetting the unit (off then on).



User Manual

