

Tru-VEND® VENDING MACHINES

Maxi-Buffer®



**INSTRUCTIONS FOR USE &
MAINTENANCE MANUAL**

Version: 15.12

“She sells, You earn!..®”

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INTRODUCTION

Dear User,

Thank you for purchasing the Maxi-Buffer® vending machine, a product manufactured by ELEKTRAL. As a company developing integrated production, our quality certified production has continued since 1978 based on high technology. This integration can be broadly described as R&D, Electronics, Electro-mechanics, Production Lines, Mechanics Workshop, Moulding Workshop, Plastic Injection and Vacuum Forming Group. With T.R. State Planning Organization's various incentives, the factory has reached an approximately 20,000 m2 production area with the capability of making many electronic machines and components for professional use. Most of our machines have been produced for the first time in our fatherland. Starting with Germany, our company is technologically cooperating in terms of production, representation and OEM production with the sector's leading companies from UAE, Bulgaria, India, Great Britain, Iran, Israel etc. We have direct or indirect exports to countries in Europe, Asia, America, Africa. Furthermore, to expand our direct sale markets in foreign countries our intensive works and exhibition activities continue uninterruptedly. As a result of our rapidly growing export potential, our company has been awarded with a first place prize in 2004, during "Rising stars of e-commerce in Turkey" competition. The same year we were awarded with the "25'th Anniversary Award of EBSO (Aegean Area Chamber of Industry), "The Chamber of Industry, Innovation, Employment" with continuous R&D projects being supported by TUBITAK (Turkish Scientific Research Council). In 2011 Istanbul Chamber of Industry has chosen our company as "INNOVATION FINALISTS". In the year 2012, with its innovative Vending Machine project, Elektral has been awarded as an "TET (Turkish Electro Technology) R&D Project Market Finalist" by the Ministry of Economy, Turkish Export Assembly and IMMIB (Istanbul Mining and Metal Exporters Union). Another award won by Elektral is "The year 2013 First Rank in Innovation" organised by IAOSB (Izmir Ataturk Industrial Zone)-Ege University. Believing that real growth target is to be achieved with a global industrial understanding and a global move, Elektral is motivating all its employees with this understanding and continues rapidly with an intensive R&D work to reach determined goals.

Tru-VEND® vending machines have been designed and produced to provide more spare time to its owners. They ease your life in various situations with multipurpose and practical use. Our products provide you profit and comfort for 24 hours continuously, loyal to the owner, with no employee costs. Please note that as for all industrial machines, its necessary to periodically check and maintain your machine. Please use the machine as recommended in this manual.



Elektral Products are produced in environmental friendly facilities, causing no harm to the nature and living creatures.

- **Made in Turkey**
- **Alteration rights reserved**
- **No claims can be accepted by our firm regarding the applications of this instrument from the second or third parties.**
- **All rights Reserved**

OPERATION AND SAFETY WARNING



Procedures & Safety Warnings before using the *Maxi-Buffer*[®]



Technical specifications of the *Maxi-Buffer*[®]



Installation of the *Maxi-Buffer*[®]



Maxi-Buffer[®] Programming and further procedures



The arrow-end lightning symbol inside the equilateral triangle informs that in the context of the product, there is enough amount of 'not insulated' dangerous voltage to cause an electric shock.



The exclamation mark inside the equilateral triangle informs the user that there are important instructions of usage and information inside the booklets given with the equipment.



Maxi-Buffer® BEFORE USE AND SAFETY WARNINGS



Maxi-Buffer® TruVEND Vending Machine is secured by three electronic PIN CODEs and two mechanic locks which only allows the owner to operate the machine. Please do not share your PIN CODE. If you forget or lose the code, get in contact with our factory premises.



Maxi-Buffer® Do not wet the machine. Please unplug and use only a damp cloth to clean the vending machine.



Only use the vending machine on Earthed Electrical Supply.



Please carefully read the chapters where you see this Warning Sign in the User's Manual.



**With Cooling: 220 VAC \pm 10% 50 Hz,
Without Cooling: 90-260 V AC 50-60 Hz, is designed to operate between given electrical limitations.**



WARNING: Please follow the instructions given in the User's Manual. Incorrect usage can cause damage to the Vending Machine and the environment.

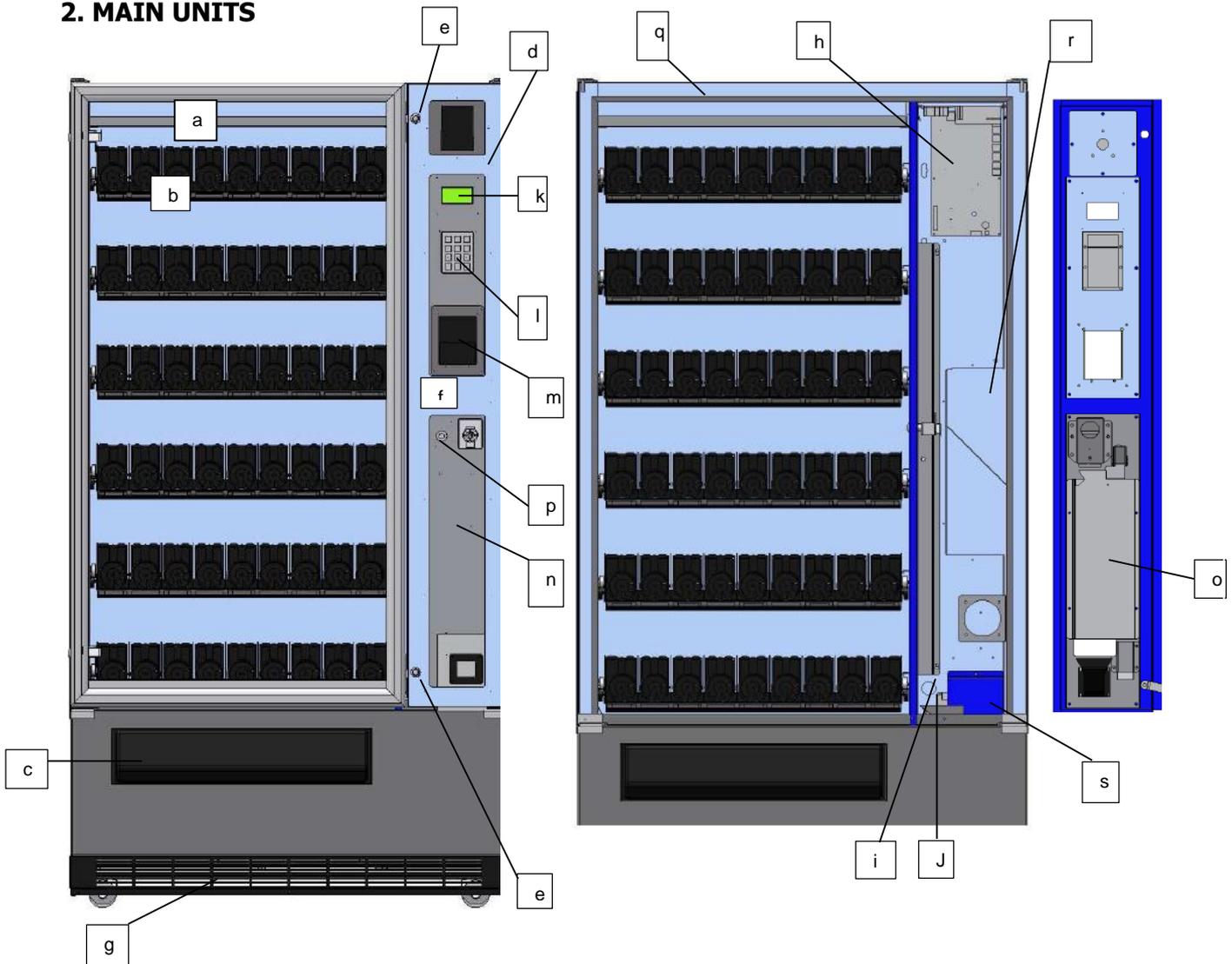
1. GENERAL DESCRIPTION

The Vending Machine that you have chosen has been produced by our factory using high technology systems in parallel with other developing technologies and modern aesthetic design providing versatile usage. Tru-VEND® Vending Machines can be used in all public areas such as hotels, factories, hospitals, restaurants, clinics, cinemas, bus terminals, gas stations, doctor & lawyer offices, malls, etc. Backwards traceability is also possible on the performed machine modifications by the serial number on each machine.

- International norms, In conformity with CE Norms and produced under ISO 9001:2008 QMS
- Fully Microprocessor Controlled MDB Interface, high storage capacity EEPROM
- Full-View Multi-Selection Snack Vending Machine with Large Double Glazed LOW E Glass Front
- Total 6 Trays, 54 Selections (513 Product Storage Capacity/Max. 7 Trays Optional)
- Easy to Load beverage/snack vending machine
- Large advertisement panel and Ad Space on Both Sides
- User Friendly Interface with Graphical LCD Display
- Easy Different Tray and/or Selection Pricing Feature
- Decorative 3x4 User Friendly Capacitive Touch Keypad
- Integrated Coin Return Button
- BITE (Built-in Test Equipment) automatically Fixing problems and/or Warning Messages on Graphical LCD
- Automatic Currency Recognition as per installed Payment System
- Easy firmware update with Bootloader
- Time/Date Function Enabling Timetable Pricing
- Preset timetable Power Saving Mode with programmable low temperature level
- Electronic thermostat controlled wide range cooling feature and high capacity cooler (Optional)
- Various Temperature Zone Operation with Optional Cooling and Temperature Display on LCD
- Silent and Vibration Free Operation
- Swinging and counterbalanced Self-Locking product dispensing slot
- Ensures reliable operation with IR Product Sensor
- Switch Controlled Menu Entry with Digital PIN Code Protection and two level Password (Owner-Operator)
- Two Stage ALARM against Vandalism. Audio Alarm against unauthorized door opening and impact sensor
- Highly corrosion-resistant production material
- 1 Year Warranty as per our "General Conditions of Sales, Delivery & Warranty"



2. MAIN UNITS



a- Stock Tray: Extra Storage Area for Products, User's Manuals etc. items

b- Product Trays: Described under Chapter 2.1

c- Compartment: Where Products fall before being picked; Product dispense hole.

d- Control Panel: Described under Chapter 2.2

e- Mechanical Lock: There are Two Mechanical Locks and they are same

f- Payment System Installation Panel: This part is used for installing Coin Selector/Change Giver/Bill Validator and Cashless Systems, Coin Return Push Button and Coin Return Chute

g- Front Blinds

h- Main Electronic Module

i- Power Supply Module

J- Power distribution board electronic module.

k- Graphical LCD

l- Keypad

- m- Bill Validator (Optional)
- n- Change Giver (Optional)
- o- Change Giver Tubes
- p- Coin Return Push Button
- q- LED Illumination Module
- r- Control Cover: In case of failure, the hardware is used for ease of access
- s- Cash Box

2.1 Product Trays

Filling up the Vending Machine and Placing the Products to the Trays

19	14	12	8	6	8	10	14	19
19	14	12	8	6	8	10	14	19
19	14	12	8	6	8	10	14	19
6	6	6	6	6	6	6	8	8
6	6	6	6	6	6	6	6	6
6	6	6	6	6	6	6	6	6



The vending machine has 6 Trays (+1 optional). In the machines with an optional cooling unit, cold products can be placed in the bottom three trays. To avoid any damage, place any breakable and heavy products into the trays close to the dispense compartment.

To place products to the Trays:

- Open the vending machine front door to be at 180° angle with the machine. Gently hold the tray upwards and pull.
- Adjust the spiral to drop the product in easily by pulling the spiral forward, turn and let go for the proper start position.
- Start loading the products from the inner spiral slots for your convenience.
- Place only one product in each slot.
- The total weight capacity of a tray is ~55 kg (depending on the product loading/stacking pattern in the tray)

The tray will stay on hold once it reaches the loading position with the help of its wheeled self-locking shelf assembly.

There are two position trays for easy product loading. However, in loading position you may load max. 10 kg heavy products and rest should be loaded when the tray is pushed back into its place. For this reason, starting to load the inner slots first is essential.

It is possible to change the spiral steps, sizes and loading capacity, depending on the available spiral types (maximum number of trays can be 7).



WARNING: Placing the products incorrectly may cause failure on dispensing the products.



WARNING: When pulling the trays out, make sure the front door is opened with a 180° angle. Otherwise the Rubber Front Door Gasket can be damaged.

2.2 Control Panel

All operational controls can be followed on the Graphical LCD Screen, also Payment Systems and Touchpad Keypad are installed on this panel.

2.2.1 Capacitive Touch Keypad

This is used for selecting products and vending machine settings, explained in details under programming section. (IP 65 Weather proof Anti-vandalism Metal Keypad is Optional.)

2.2.2 Graphical LCD Screen

All operations are being displayed on the Graphic Liquid Crystal Display-GLCD for easy usage. Will be referred as GLCD thereafter.

2.2.3 Payment System (Optional)

Coin Selector accepts pre-defined coins for the payment processing. It recognizes the domestic currency which had been programmed. The mechanism will not accept the currency which has not been defined and will be returned through the Coin Return Chute.

The system has Automatic Currency Recognition feature as per the assembled Payment System.

The Vending Machine which is eligible for MDB protocol can be equipped with Change Giver, Coin Selector, Bill Validator and/or a combination of Bill Validator and Change Giver, Cashless Payment Systems as per customers' choice.

Please note that the Payment System is Optional and not all Maxi Buffet Vending Machines are Equipped with a Payment System.

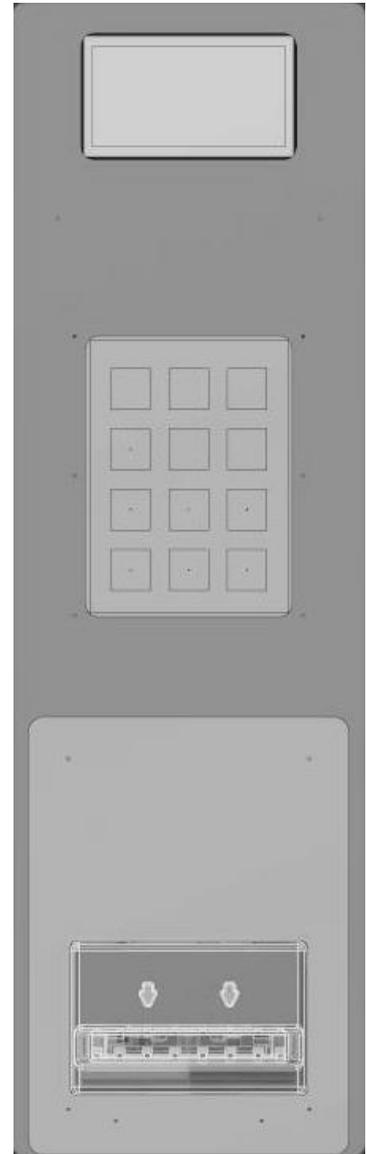
2.2.3.1 Coin Selector

Accepts coins only. This equipment can accept different types of coins. There is no Change Function.

2.2.3.2 Change Giver

There are 4 tubes (may change as per the ordered model) where the coins are being collected for change giving. The coins of the main currency defined to the device are being collected in these 4 tubes to be used later for change giving. Once the tubes are full, coins are sent to the Cash Box under the Change Giver Unit automatically. The coins are collected in the Cash Box.

Please check Chapter 4.2.1.1 for the settings of the Change Giver Unit.



2.2.3.3 Bill Validator

The bill validator accepts only the pre-defined banknotes and proceeds with the payment process.

It recognizes the currency bills which had been programmed and returns the unidentified or counterfeit banknotes. It can be used at the same time with either MDB Supporting Change Giver or Coin Selector.

2.2.3.4 Prepaid Card System (Cashless Payment Device)

This application enables the customers to shop without using Money. A Prepaid Card is used instead. This cashless system enables the customers to load credit to their cards and use their credits for shopping on the Vending Machine. When inserted into its slot on the Vending Machine, the available credit of the User is displayed on the GLCD. Customers may easily load credits into their cards by inserting Money and the shopping value is being deducted from their credits.

2.3 Coin Return Push Button

This button is used for getting the change after shopping. After pressing this button change can be collected from the Coin Return Chute.

2.4 Coin Entry Slot

This entry slot is used for inserting coins into Vending Machine. Coins are being placed into the slot then simply being pushed upwards.

Inserted coin value can be seen on the screen. If the inserted coin is not defined or is an imitation then the coin drops down to the Coin Return Chute and is not accepted.

2.5 Coin Return Chute

This chute is for the change and/or coins which cannot be validated.

Coins can be collected after falling into the return chute.

2.6 Cash Box

Cash Box is where accepted coins are collected (excess money over tubes). For increased security the cash box has a padlock.

The cash box has to be checked and emptied periodically or the cash box can be filled up with coins and coins may drop around which may cause problems.

2.7 Electronic Modules

Maxi-Buffer is fully microprocessor controlled and the electronic modules in use are as follows:

a) Power distribution board electronic module: This module is used for distributing energy to the Vending Machine. With its two fuse control this unit helps preventing possible electrical problems which may be caused by other electronic modules or the optional cooling unit and it provides increased safety.



- b) Power Supply Module: This module is to provide DC Voltage.
- c) Main Electronic Module: All functions of the Maxi-Buffer Vending Machine are being controlled by this Module.
- d) Capacitive Touchpad Keypad
- e) Graphical LCD Screen
- f) IR Product Sensor: This module is used for checking the Proper Physical Vending Process. If there is no real vend then the credit will remain so that another product can be selected or the credit can be taken. (Chapter 4.2.1.2)
- g) Illumination electronic module.



Please contact our Technical Service for any failures on electronic modules.

3. VENDING MACHINE SAFETY

There are many security precautions against theft and other vandalism possibilities with the *Maxi-Buffer®*.

The Cabinet and the Low-E Glass Front have been designed with maximum safety using robust production materials. There are Security Locks on the Vending Machine and the Cash box.

There are three security passwords as electronic security precautions.

- a) Alarm Password: This password has to be entered prior to opening the door of the Maxi-Buffer. When opened without entering password, the Maxi-Buffer will give a 120db audio alarm. After 10 seconds the front door is closed, the alarm is activated automatically. Default alarm password is "1234".
- b) Administrator Password: This admin level password enables Access to all settings of the Maxi-Buffer. Default administrative password is "8888".
- c) User Password: This level menu entry enables Access to menus which are authorized by the administrator. (Chapter 4.2.1.8) . Default User Password is " 0000 ".

Note: The Administrator Password and the User Password cannot be the same.

4. PROGRAMMING



All programming settings of the *Maxi-Buffer*[®] can be done using the Touchpad Keypad on the Control Panel. Keypad buttons are as follows;

- X** EXIT/NO
- ✓** SAVE/YES/SELECT
- 8** Up Arrow to Scroll Up
- 0** Down Arrow to Scroll Down
- 7** To copy the selected value in some menus i.e., Price Settings
- 9** To Paste the copied Value

Number Keys 1 to 9 are used for entering values.

To silence the alarm enter 1234 default alarm password. To enter programming menu press '8888' in sequence.

Open the front door of the Maxi-Buffer and open the protective door to access the main electronic board. Press the button on the Main Board (**BUT1**) to enter the menu.

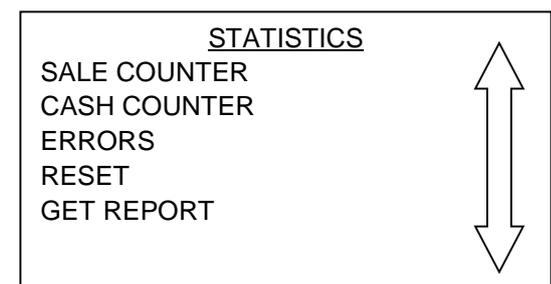
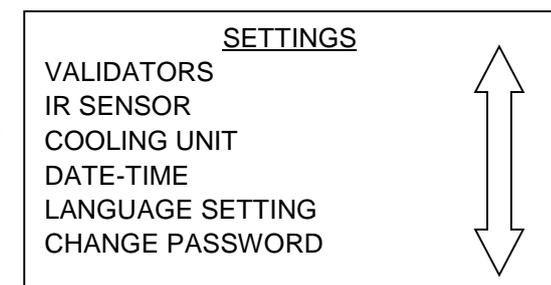
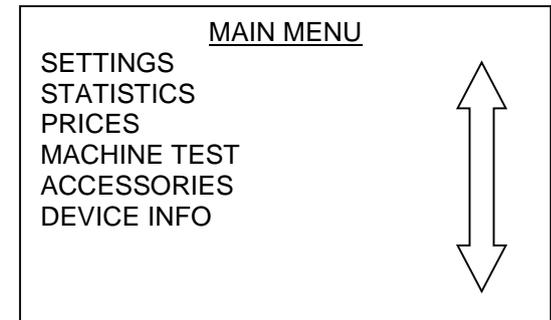
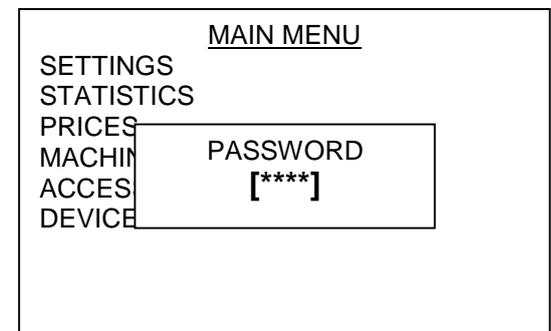
Enter the 'Administrator Password' or the 'User Password' using the keypad.

SCROLL IN THE MENU Using (8) UP and (0) DOWN keys and Select the desired Menu by (✓) SELECT.

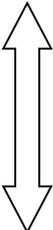
4.1 Main Menus

Settings: Selection of Payment System, Date-Time Settings, Cooling Unit Settings, Password Settings etc. Settings can be done in this menu.

Statistics: All statistical information available can be seen inside this menu.



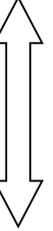
Price Settings: This menu is for setting Prices, Currency Settings and Discount Rates.

<u>PRICES</u>	
PRICE SETTINGS	
EXCHANGE OF RATE	
DISCOUNT	

Machine Test: This menu is for testing the hardware equipped on the Vending Machine (motors, IR Product Sensor etc.).

<u>MACHINE TEST</u>	
MOTOR CONTROL	
IR CONTROL	
MOTOR STATUS	
VALIDATORS	
TOUCHBOARD	
RELAY CONTROL	

Accessories: This menu is for the settings of Alarm, Impact Sensor and GSM/GPRS etc. accessories available.

<u>ACCESSORIES</u>	
ALARM	
BILL	
GSM/GPRS	
TILT SENSOR	

4.2 Menus

To enter sub menus, you need to enter Main Menus and scroll. using SCROLL Keys find the Menu you wish to proceed and press (✓) **SELECT**. To proceed with entering new values press (✓) **SELECT** button to save the changes press (✓) **SELECT** again or **Exit** with (X) button.

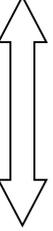
4.2.1 Settings Main Menu

4.2.1.1 Payment System



WARNING: The standard Coin Mechanisms installed on the *Maxi-Buffer*[®] are compatible with MDB protocol. If there will be another Coin Mechanism in use with the following protocols; EXECUTIVE, PARALEL and CCTALK the compatible Coin Mechanisms should be installed and the Protocol has to be selected from the Menu. If by mistake a different protocol (other than MDB) is selected from the Menu, the *Maxi-Buffer*[®] will not accept any money and will return all.

This menu is used to change the standard settings of the payment system.

<u>VALIDATORS</u>	
SERIAL PROTOCOL	
MDB SETTINGS	
EXECUTIVE SETTINGS	
CCTALK SETTINGS	
impMDB SETTINGS	
PARALLEL SETTINGS	

4.2.1.1.1 Serial Protocol

This menu is used for selecting the Payment System in use.

Use **UP (8)** and **DOWN (0)** Scroll Keys and (**√**) **SELECT**.

<u>SERIAL PROTOCOL</u>	
MDB	
EXECUTIVE	
CCTALK	
impMDB	
PARALLEL	

4.2.1.1.2 MDB Settings

This menu is for MDB Payment System Settings.

Maximum Waiting: Waiting Period after money insertion. After threshold period the Value on LCD will reset to Zero and money will be collected inside the Vending Machine.

<u>MDB SETTINGS</u>	
MAX. WAIT	60
MAX CHANGE	20.00
MAX. ACCEPT	20
ERASE CREDIT	
FREE VEND	
CHANGE BACK	

Maximum Change: This menu is to set the Maximum Change Value.

Erase Credit: This parameter is used to define whether to reset or not to reset the Credit Value after a Certain Waiting Period upon money insertion. Full bracket (X) means this feature is active.

Free Vend: This feature enables free distribution of products with prices set to '0'. Full bracket (X) means this feature is active.

Change Back: This parameter is used for activating or deactivating the Change Function. Full bracket (X) means this feature is active.

Manual Dispense: This parameter is used to activate or deactivate Manual Dispensing of the Coins in the tubes using the buttons on the Change Giver unit. Full bracket (X) means this feature is active.

Free Change: This parameter is used to activate or deactivate the Change Function without purchasing any product from the Vending Machine. Full bracket (X) means this feature is active.

Automatic Change: This feature enables automatic Change without the need to press Coin Return Push Button. Full bracket (X) means this feature is active.

Big Value Mode: This mode is for some currencies which have very little purchase value and the Note Values are very high i.e. 1000 etc. to display a Product Price of 12000 in Big Value Mode 12k is used in short.

Coin XX: This parameter is to set the acceptance status of the nr. XX Coin. Full bracket (X) means this feature is active.

Bill XX: This parameter is to set the acceptance status of the nr. XX Bill. Full bracket (X) means this feature is active.

4.2.1.1.3 EXECUTIVE Settings

This menu is for EXECUTIVE Payment System Settings.

Price Holding: This parameter displays the Status of Price Holding function. Full bracket (X) means this feature is active.

Free Vend: This feature enables free distribution of products with prices set to '0'. Full bracket (X) means this feature is active.

Product (XX): When in Price Holding operation mode these values become active. This is to mention that Nr. XX product belongs to Nr. XX Value in sequence.

4.2.1.1.4 CCTALK Settings (Optional)

This menu is for CCTALK payment system settings.

4.2.1.1.5 Imp MDB Settings (Optional)

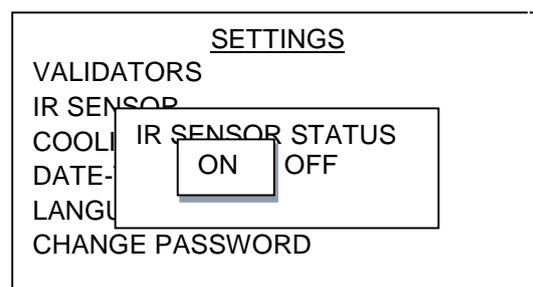
This menu is for MDB payment system settings.

4.2.1.1.6 PARALLEL Settings (Optional)

This menu is for PARALLEL payment system settings.

4.2.1.2 IR Product Sensor

This menu is to activate or deactivate the IR Product Sensor. IR Product Sensor checks if the product is delivered to the customer or not.



WARNING: If the IR Sensor is deactivated, the vending machine will not be able to check product delivery conditions and the presence or lack of products in the machine trays.



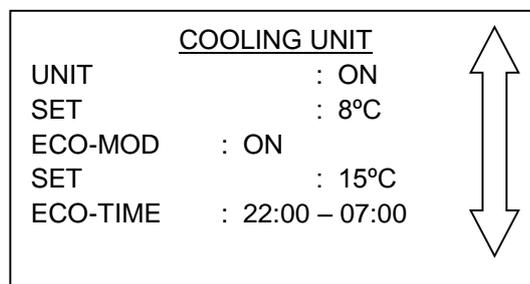
If the IR product sensor determines that a product is not delivered, the related selection (Spiral) is deactivated and customer credit remains active on Graphic LCD for another vend.



If there has not been a product dispense upon 5 vends in a row, the IR product sensor turns off itself. The Vending Machine operates without IR product sensor. It can be re-activated from the menu again.

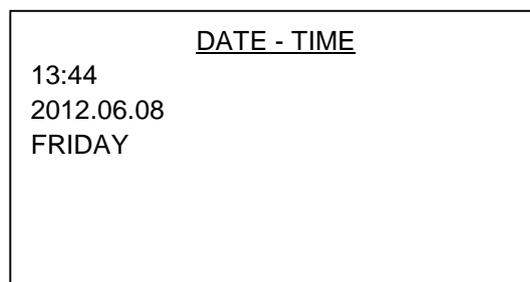
4.2.1.3 Cooling Unit (Optional)

This menu is for Cooling Unit Settings. Using the menu you may activate and/or deactivate the Cooling System, proceed to temperature settings and the Economy-Mode Operation Settings for certain periods.



4.2.1.4 Date-Time Settings

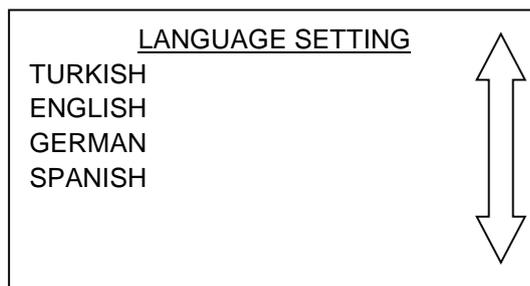
This menu is to set Time and Date. Press (√) SELECT button to enter value settings. The values can be entered in sequence. Wrong entries are not accepted. Weekday is automatic as per Date Settings.



4.2.1.5 Language Setting

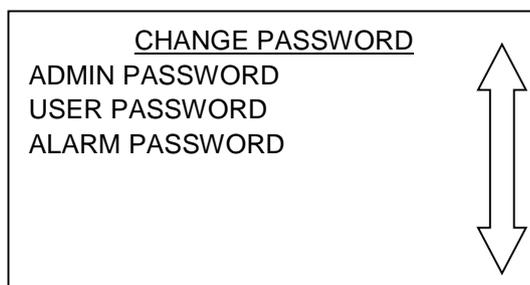
This menu is for Language Selection. Desired Language can be highlighted and selected with button (✓) SELECT.

Languages other than Turkish and English are Optional.



4.2.1.6 Change Password

Move onto the Password you want to change using UP and DOWN arrow Keys and press (✓) SELECT. First, you need to enter the old password. If the old password is correct then you may proceed next and Enter the New Password. For approval you need to re-enter the New Password.



Admin Password: This password enables Access to all settings of the Maxi-Buffer. Default administrative password is " 8888 ".

User Password: This level password entry enables Access to menus which are authorized by the administrator. Default User Password is " 0000 " and cannot be the same with the Admin Password. Please check Chapter 4.2.1.8 Authorization.

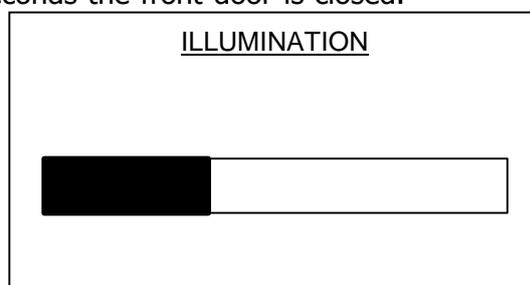
Alarm Password: This password has to be entered prior to opening the door of the Maxi-Buffer. When opened without entering password, the Maxi-Buffer gives a 120db audio alarm. The alarm is being activated automatically after 10 seconds the front door is closed. Default alarm password is " 1234 ".

4.2.1.7 Illumination

4.2.1.7.1 Illumination Power

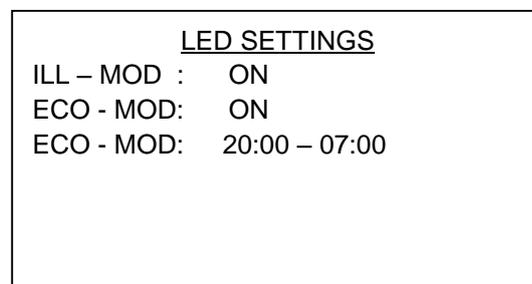
This menu is for adjusting the Power of LED Illumination of the Low-E Glass Front.

Adjustment can be made using UP (8) and DOWN (0) Buttons.



4.2.1.7.2 LED Settings

Using the LED settings, economy mode can be activated to save energy. During the economy mode lighting is turned off for the adjusted time limit.

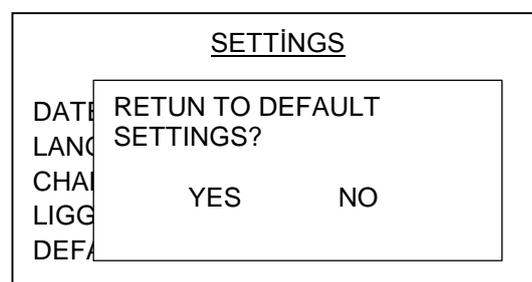


4.2.1.8 Authorization

This menu is to set the Access limitations of the User Password by the administrator.

Full bracket (X) means this feature is active.

4.2.1.9 Factory Settings



4.2.2 Statistics Main Menu

4.2.2.1 Sale Counter

This menu displays the total number of products sold after the last reset.

Each and every Product Selection can be chosen and Reset to Zero.

<u>SALE COUNTER</u>	
PROD. (11):	0 pcs.
PROD. (12):	1 pcs.
PROD. (13):	9 pcs.
PROD. (14):	3 pcs.
PROD. (15):	4 pcs.
PROD. (16):	5 pcs.



4.2.2.2 Cash Counter

This menu displays the total amount of cash in defined currency.

Total VM Revenue: Displays the Total Cash collected by the VM. This Value cannot be reset.

Net Revenue: This is the Net Amount collected by the VM. This value can be reset.

<u>CASH COUNTER</u>	
TOTAL VM REVENUE	158,25 EUR
NET REVENUE	
GROSS REVENUE	
DISCOUNT SALES	
TOTAL DISCOUNTS	



Gross Revenue: This value is for the total amount of sales excluding discount amount of Discount Sales. This value can be reset.

Discount Sales: This value displays the total revenue generated whilst discount period. This value can be reset.

Total Discounts: This value displays the total discounts applied. This value can be reset.

Overpaid: This value is to display remaining (overpaid) credit reset in the machine. This value can be reset.

Normal Sales: This value displays the sales amount without any discounts applied. This value can be reset.

Cashless Total: This value displays the sales amount without paid by Cashless Payment System. This value can be reset.

Cash Box Total: This value displays the total amount of money collected in the cash box. VM equipped with Change Giver first collects the coins into its tubes then fills up the Cash Box. This value can be reset.

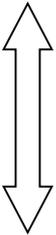
Stacker Total : This value displays the amount of Banknotes Collected in the Bill Validator Stacker.

Tubes Total: This value displays the amount of Coins in Change Giver Tubes.

4.2.2.3 Errors

Pre-defined Error Codes are as mentioned hereunder;

<u>ERRORS</u>	
ERROR (01):	052-11
06.09.10	12:10 (3)
ERROR (02):	068-02
ERROR (03):	000-00
ERROR (04):	000-00
ERROR (05):	000-00



#	Change Giver Error Codes	#	Other Error Codes
01-003	No Credit1	50	Motor Error 3
01-004	Defective Tube Sensor1	51	Extreme Current on Motor
01-005	Double Arrival1	52	Motor Error 1
01-006	Acceptor Unplugged2	53	Motor Error 2
01-007	Tube Jam1	54	Heat Sensor Error
01-008	ROM checksum error1	56	EEPROM Error
01-009	Coin Routing Error1	58	Flash Error
01-012	Coin Jam1	60	Keypad Error
01-013	Possible Credited Coin Removal1	62	RTC Error
#	Bill Validator Errors	64	IR Error 1
02-021	Defective Motor3	65	IR Error 2
02-22	Sensor Problem3	66	IR Error 3
02-24	ROM Checksum Error3	67	IR Error 4
02-25	Validator Jammed3	68	MDB Communication Error
02-27	Bill Removed1	70	WDT Reset Error
02-28	Cash Box out of position3	71	Brownout Reset Error
02-30	Invalid Escrow request1	74	Address Error
02-32	Possible Credited Bill Removal1	76	Trap Conflict
		78	Change Giving Error 1
		79	Change Giving Error `2
		83	Motor Short Circuit
		84	Tray Short Circuit
		86	High Side Problem
		9X	Change Giver Advanced Malfunctions

Parameters shown on GLCD are to display current settings follows;

- 1 ⇨ Door Open
- 2 ⇨ IR Product Sensor Off
- 3 ⇨ Alarm Off
- 4 ⇨ Impact Sensor Off
- 5 ⇨ No Change
- 6 ⇨ IR Sensor Problem Occurred
- 7 ⇨ Motor Error Occurred
- 8 ⇨ Machined Reported an Error

4.2.2.4 Reset

Parameters shown on GLCD are to display current settings of the *Maxi-Buffer*® as follows;

This menu is used for resetting whole values kept in the Statistics Menu. Press (√) SELECT and confirm the application.

<u>RESET</u>
SALE COUNTER
CASH COUNTER

4.2.2.5 Get Report (Optional)

This menu is to report Values in the Statistics Menu.

4.2.3 Prices Main Menu

4.2.3.1 Price Settings

This menu is to set prices. Move onto the Product Number. You wish to set prices and press (✓) SELECT to enter New Price.

PRICE SETTINGS	
PROD. (11):	0,50 EUR
PROD. (12):	1,50 EUR
PROD. (12):	0,25 EUR
PROD. (13):	0,00 EUR
PROD. (14):	0,50 EUR
PROD. (15):	0,50 EUR
PROD. (16):	0,25 EUR

4.2.3.2 Discount (Optional)

This menu is to set timetable discount pricing for certain periods and to adjust discount ratio.

4.2.4 Machine Test Main Menu

4.2.4.1 Motor Control

You may test the Motors of the Maxi Buffet through this menu.

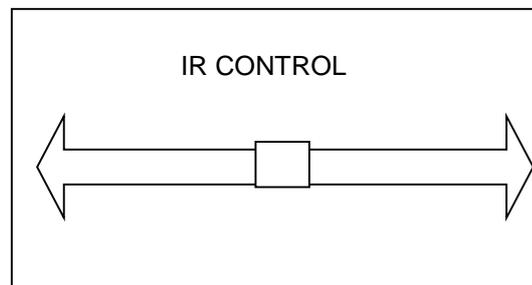
For example; to test the second motor of the first tray, you need to enter '1', '2' values. The selected motor will turn a complete tour as if to dispense a single product.

You may also see whether the motors are connected and Motor Currents as well.

MOTOR CONTROL
Choose Motor...12
Motor OK
Motor Current: 114mA

4.2.4.2 IR Control

This menu is to test the IR Product Sensor operation. When in this menu, an object will be moved throughout the passage of the IR Sensor (Compartment) there should be an audio-visual indication and also the number of events can be seen on Graphic LCD.



4.2.4.3 Motor Status

This menu is used for checking whether the motors are connected to the Vending Machine or not. Motors marked with "X" on the list are connected.

4.2.4.4. Payment System

This menu displays the Payment System information connected to MDB serial interface. If there is no connected Payment System available this information can also be seen.

4.2.4.5 Touchboard

This menu is for Keypad Controls.

4.2.4.6 Relay Control

This menu is for checking the Relay Controls of the Cooling Unit. Relay controls are as follows;

1st Relay can be opened using Nr. 1 Key and Closed Using Nr. 4 Key,

2nd Relay can be opened using Nr. 2 Key and Closed Using Nr. 5 Key,

3rd Relay (Optional) can be opened using Nr. 3 Key and Closed Using Nr. 6 Key

4.2.5 Accessories Main Menu

4.2.5.1 Alarm

This menu is used for activating or deactivating the alarm against unauthorized access (Without Password Entry) to Door Opening (Please check Chapter 3. VENDING SAFETY).

4.2.5.3 GSM/GPRS (optional)

This menu is for GSM/GPRS module settings.

4.2.5.4 Impact Sensor

This menu is used for activating or deactivating the Impact Sensor against Vandalism as an increased safety precaution.

4.2.6 Machine Information

In this menu, machine tracing number, software version etc. information can be found.

5. TECHNICAL FEATURES and ENERGY EFFICIENCY



Electricity (With Cooling): 220 VAC \pm 10 50 Hz
Electricity (Without Cooling): 90-260 VAC 50-60 Hz
(Norm Earthed Mains Supply is necessary)
Power Consumption (With Cooling): 250 W (Total Daily Consumption/24 h)
Power Consumption (Without Cooling): 50 W
Dimensions: Height 1900 mm, Width 915 mm, Depth 785 mm
Tray Loading Capacity: \approx 25Kg/Tray
Maximum Non-Condensed Humidity: %90
Operation Temperature: -20~+70 °C



For Energy Efficiency please keep unused parts of your machine closed. Before adjusting temperature levels of the *Maxi-Buffer*[®] with Cooling Unit, please consider the requirements. Extreme cooling should not be used unnecessarily.

6. TRANSPORTATION AND INSTALLATION

The Vending Machine has to be protected from all means of physical damages and has to be in Vertical Position during transportation process. If for any reason there will be a change in the upright position of the Vending Machine, all necessary precautions have to be taken and utmost attention has to be given to Low-E Glass Front, Product Trays and the Cooling Unit.



Please read the User's Manual Carefully before installation.

- Please do not operate (plug in) the *Maxi-Buffer*[®] min. 2 hours after placing the machine at the installation site. The cooling unit liquid has to settle down.
- Remove the packaging and the protective foam between the trays.
- 54 Units Plastic Product Pushers and 4 Bingo Footers are being delivered in Stock Tray.
- Operate the *Maxi-Buffer*[®] (after waiting 2 hrs.)
- You may either use the machine on the palette or use it on its footers. To do so, please remove the machine from the palette and use the Footers to adjust the Height.
- Adjust the Settings and Set Prices according to your requirements.
- Please use Plastic Product Pushers for proper vending. Some small thin products may require this extra push the Plastic Pushers will provide. The Plastic Pushers to be fixed to the Spirals. (You may also use adhesive to make a stronger attachment)

The *Maxi-Buffer*[®] is being delivered fixed on a Palette. The *Maxi-Buffer*[®] can either be used on its palette or on its bingo footers after being placed on a location carried on its wheel base.

(There are 4 Fixing Screws on Corners of the Palette) You may also use the Vending Machine on its adjustable foot screws (should be fixed into the same screw holes after detaching from the palette) after placing the VM in its place. The adjustable foot screws come along with the VM itself.

The Wheeled Base Assembly is for easy relocation on the floor. It is not suggested to use the *Maxi-Buffer*[®] on the Wheel Assembly for long durations.

After removal of packing materials the Vending Machine has to be checked if any damages have occurred during transportation. These checks can be the overall look for any physical damages, whether trays are in their positions or not, the control panel is closed or not etc. (Chapter 2 Main Units).

The power cable for mains connection is supplied with the *Maxi-Buffer*[®]. The Vending Machine has to be connected to Mains to start operation.

Before proceeding with Product Loading and Price Setting it is suggested that the main functions should be controlled from the Machine Test Menu (Chapter 4.2.4).



Only operate the Vending Machine on Norm Earthed Mains Supply.



Vending Machines with Cooling Unit;

There must be min. 10 cm space between the back side of the Vending Machine and the Walls.

The Vending machine must not be operated for 2 hours after transportation. If the Upright (Vertical) Position of the Vending Machine has not been kept during transportation, the waiting period before use should not be less than 3 hours. The VM must not operate under direct sunlight.

7. OPERATION OF *Maxi-Buffer*[®]

Necessary controls and settings the users should proceed with, regarding the operation of the *Maxi-Buffer*[®] are described under Product Loading (Chapter 2.1), Pricing (Chapter 4.2.3) and Machine Tests (Chapter 4.2.4).

Instructions for the Customers who will purchase from the *Maxi-Buffer*[®] are as follows;

'INSTRUCTIONS FOR USE';

- 1- Enter "Product Code" to see the Price of the Selection
- 2- Insert enough Money to buy the selected product.
- 3- Enter the "Product Code" of the product you would like to purchase.
- 4- Pick up the product from the Compartment.

5- Press the Coin Return Push Button.

8. INSTALLATION and CLEANING

Maxi-Buffer[®] is designed to operate 7/24 basis. The Maxi-Buffer can be operated only after proceeding necessary steps described in the User's Manual.

Do not use water directly to clean the Machine. Use dry or damp cloth for cleaning. Electronic units should be protected from water.

During product loading and cash collection, the Vending Machine will be opened often and may result in "Errors" which can be checked from the menu and necessary corrections have to be made as soon as possible.

Unauthorized staff must not maintain the equipment. Whilst in maintenance, proceed as per "Service Manual" instructions.

Important Warnings

- When pulling the trays out, make sure the front door is open at a 120° angle. Otherwise the Tray may hit the door or rubber front door gasket and can cause damage.
- Gently hold the tray upwards before pulling it out.
- When the tray is in loading position the inner steps of the spirals have to be loaded first and the trays have to be pushed back in place while loading the products to the front lines. Overloading the tray in loading position may result in damages and the tray may slide out from its place causing injuries, cable failures or other physical damages.
- The Cooling Unit should be serviced every year and the Cooling Unit Condenser should be cleaned.

9. OPTIONAL UNITS

9.1 Cooling Unit

The Maxi Buffet has an Optional Modular Cooling unit for vending refrigerated Cold Drinks and/or snack foods. It has a high cooling capacity of 600 W Cooling Power. The modular Cooling Units and electronic thermostat controlled economy mode operation are some of its features. The Cooling Unit has a complete modular design enabling ease of assembly and maintenance. Modular Cooling Unit can be equipped to a Standard Maxi-Buffer at a later time as an optional unit.

The compressor and the fans operate with 210-240 V, 50 Hz.

Non-inflammable and non-exploding gas R134-A has been used in the system. As a protection measure the compressor starts operating 2.5 minutes after the power on. Evaporator, condenser and defrost system are other features of the cooling module.

Compressor Features:

Hermetic Reciprocating, HBP(+7,2°C / 54,4°C), H. Power: 3/8, Cooling Capacity: 1.316 W

Motor Type: 1 Phase – RSIR, cm³/rev: 11,14

Suction Line: 5/16" Discharge Line: 1/4"



Useful Information;

- Open the cooling unit from behind and check if the compressor unit is in operation.
- Visually check if the compressor fan is operating.
- There is a pipe connected with a valve on the Compressor to be used for gas filling.
- The fan throws out the heated air over the compressor. If the fan does not function the compressor may malfunction due extreme heat.
- The Vending Machine automatically stops the Cooling unit for 10 minutes every 4 hours cycle to avoid frost and extreme use of the cooling system. Defrost mechanism comes on at this point.
- If the front door rubber gasket is out of its place, the front door is opened quite often, remains opened for long durations or if there is direct sunlight to the machine, the evaporator may become covered with frost and the cooling stops.



The Cooling Module has a modular design. The single piece plug in type Cooling Unit can be installed on a standard *Maxi-Buffer*[®] at first use or at a later time.

9.2 Additional Tray / Canned Drink Dispenser

Maxi Buffet has 6 Standard Trays with the possibility to add 1 Optional Tray. The design of the mechanical structure allows later additional installation.

Special design and adjustments can be made as per the buyer's request to vend different packing size/shape products requiring different storage conditions other than the standard configuration.

9.3 GSM/GPRS Remote Access

The offered optional GSM/GPRS module provides remote access to all Vending Machine statistical data and product availability / storage condition of the machine. The operators can perform Price Settings and Discount Menu Settings etc. controls via Remote Access.

9.4 Optional Heating /Conditioning

The optional heating unit can enable the Maxi-Buffer to vend products that may need heating. These can be bakery products such as pastry, bread loafs, bagels and/or products needing to be stored at a certain hot temperature level. Please contact our Sales Department for inquiries.

10. TROUBLESHOOTING

10.1 Warnings

Maxi-Buffer[®] must be taken into operation only after all necessary precautions and instructions in this User's Manual are fulfilled. Misuse of the Vending Machine may cause malfunctions and/or harm to the environment and humans.

The Maxi-Buffer is recommended to operate in fixed vertical position.

Periodically check the operation of the *Maxi-Buffer*[®].



Never operate your Vending Machine if there is no Norm Earthed Mains Supply.

10.2 Frequently Asked Questions

In this section you may find information about Frequently Asked Questions regarding Installation and the use of your vending machine.

10.2.1 General Questions:

- **There is no Earth / Grounding on Mains Supply. What should I do?**

Do not operate your Vending Machine without earthed electricity power supply. Operation without earthed supply is risky and may have serious consequences in respects of operation and safety.

- **Can I directly interfere or should I get in contact with a technician, when there is a problem with the vending machine?**

If the problem is not solved after trying all procedures given in the User's Manual, you may contact our technical service. Any maintenance job done by third parties will void the Vending Machine Warranty Terms.

- **How many hours a day can the Vending Machine operate?**

Your Vending Machine is designed to operate 24 hours/day year round basis.

- **How can I clean the Machine?**

Do not use water directly to clean the Machine. Use dry or damp cloth for cleaning.

10.2.2 Operational Questions:

- **Does long time non-operational storage require settings and maintenance?**

Proper storage conditions do not require any additional settings and/or maintenance before use.

- **One of the motors is not operating, what can I do?**

First of all control the PINS inside the Motor Socket. Then in sequence check the 10 PIN Sockets and Cables in the Connectors connecting to the Electronic Board.



WARNING: Please do not force the sockets and PINS. The sockets are easy to connect and disconnect.

- **I forgot my Password, what can I do?**

Please get in contact with our Technical Service Department with the Warranty Card.

- **Cooling Unit is not operating, what should I do?**

The Cooling Unit may have been deactivated from the menu. Please check Chapter 4.2.1.3. Front door may be open. There should not be "1" Door Open warning on the LCD screen. All Three LEDs on the Power Distribution Board Electronic Module (Chapter 2) must be in lit position.

11. Menu Tree

- 1 Settings
 - 1.1 Validators
 - 1.1.1 Serial Protocol
 - 1.1.1.1 Mdb
 - 1.1.1.2 Executive
 - 1.1.1.3 Cctalk
 - 1.1.1.4 Imp Mdb
 - 1.1.1.5 Parallel
 - 1.1.2 Mdb Settings
 - 1.1.2.1 Max. Wait
 - 1.1.2.2 Max. Change
 - 1.1.2.3 Max. Accept
 - 1.1.2.4 Erase Credit
 - 1.1.2.5 Free Vend
 - 1.1.2.6 Change Back
 - 1.1.2.7 Manual Dispense
 - 1.1.2.8 Free Change
 - 1.1.2.9 Automatic Change
 - 1.1.2.10 Altern. Pay Out
 - 1.1.2.11 Big Value Mode
 - 1.1.2.12 Coin 01
 - ---
 - 1.1.2.27 Coin 16
 - 1.1.2.28 Bill 01
 - ---
 - 1.1.2.43 Bill 16
 - 1.1.3 Executive Settings
 - 1.1.3.1 Price Holding
 - 1.1.3.2 Free Vend ✓
 - 1.1.3.3 Prod. (11) 3
 - ---
 - 1.1.5.74 Prod. (89) 1
 - 1.1.4 Cctalk Settings
 - 1.1.5 Impmdb Settings
 - 1.1.6 Parallel Settings
 - 1.1.6.1 Decimal: 2
 - 1.1.6.2 Currency: Trl
 - 1.1.6.3 Line1: 0.00 Trl
 - ---
 - 1.1.6.8 Line6: 0.00 Trl
 - 1.2 Ir Sensor
 - 1.2.1 On
 - 1.2.2 Off
 - 1.3. Cooling Unit
 - 1.3.1 Cooling Unit And Eco-Mode Temperature Settings
 - 1.4 Date - Time
 - 1.4.1 Date-Time Settings
 - 1.5 Language Setting
 - 1.5.1 Turkish
 - 1.5.2 English
 - 1.5.3 German
 - 1.5.4 Spanish
 - 1.6. Change Password
 - 1.6.1 Admin Password
 - 1.6.1.1 Old Password Enter
 - 1.6.1.2 New Password Enter
 - 1.6.1.3 New Password Again Enter
 - 1.6.2 User Password
 - 1.6.3 Alarm Password
 - 1.7. Illumination
 - 1.8. Authorization
 - 1.8.1 Serial Protocol
 - 1.8.2 Mdb Settings
 - 1.8.3 Executive Settings
 - 1.8.4 Cctalk Settings
 - 1.8.5 Impmdb Settings
 - 1.8.6 Parallel Settings
 - 1.8.7 Ir Sensor
 - 1.8.8 Cooling Unit
 - 1.8.9 Date – Time
 - 1.8.10 Language Setting
 - 1.8.11 Change Password
 - 1.8.12 Illumination Power
 - 1.8.13 Default Settings
 - 1.8.14 Sale Counter
 - 1.8.15 Cash Counter
 - 1.8.16 Errors
 - 1.8.17 Reset
 - 1.8.18 Get Report
 - 1.8.19 Price Settings
 - 1.8. 20 Exchange Of Rate
 - 1.8.21 Discount
 - 1.8.22 Motor Control
 - 1.8.23 Ir Control
 - 1.8.24 Motor Status
 - 1.8.25 Validators
 - 1.8.26 Touchboard
 - 1.8.27 Relay Control
 - 1.8.28 Others
 - 1.8.29 Alarm
 - 1.8.30 Bill
 - 1.8.31 Gsm/Gprs
 - 1.8.32 Tilt Sensor
 - 1.9 Default Settings
- 2 Statistics
 - 2.1 Sale Counter
 - 2.1.1 Prod. (11): 7 Pcs
 - ----
 - 2.1.72 Prod. (89): 0 Pcs
 - 2.2. Cash Counter
 - 2.2.1 Total Vm Revenue
 - 2.2.2 Net Revenue
 - 2.2.3 Gross Revenue
 - 2.2.4 Discount Sales
 - 2.2.5 Total Discounts
 - 2.2.6 Overpaid Amount
 - 2.2.7 Total Sales
 - 2.2.8 Cashless Total
 - 2.2.9 Cashbox Total
 - 2.2.10 Stacker Total
 - 2.2.11 Tubes Total
 - 2.3. Errors
 - 2.4 Reset
 - 2.4.1 Sale Counter
 - 2.4.2 Cash Counter
 - 2.5 Get Report
 - 2.5.1. Printer
 - 2.5.2 Thumb Drive
 - 2.5.3 Rs232
- 3 Prices
 - 3.1 Price Settings
 - 3.1.1 Prod. (11): 0.50 Trl
 - -----
 - 3.1.2 Prod. (89): 0.00 Trl
 - 3.2 Exchange Of Rate
 - 3.3 Discount
 - 3.3.1 Discount No
- 4 Machine Test
 - 4.1 Motor Control
 - 4.1.1 Choose Motor...
 - 4.2 IR Control
 - 4.3 Motor Status
 - 4.4 Validators
 - 4.4.1 Coin Changer

- 4.4.1.1 Displays Change Giver
Data
- 4.4.2 Bill Validator
 - 4.4.2.1 Displays Bill Validator
Data
- 4.4.3 Cashless Machine
 - 4.4.3.1 Displays Cashless
Payment System Data
- 4.5 Touchboard
 - 4.5.1 Displays Touchboard Version
- 4.6. Relay Control
 - 4.6.1 Relay 1 (Cooling)
 - 4.6.2 Relay 2 (Fan)
 - 4.6.3 Relay 3
- 4.7 Others
- 5 Accessories
 - 5.1 Alarm
 - 5.1.1 On
 - 5.1.2 Off
 - 5.2 Bill
 - 5.3 Gsm/Gprs
 - 5.4 Tilt Sensor
 - 5.4.1 On
 - 5.4.2 Off
- 6 Machine Info
 - 6.1 Name
 - 6.2 Code
 - 6.3 Traceability Number
 - 6.4 Serial Number
 - 6.5 Hardware Number
 - 6.6 Software Version

12. SERVICE CENTRE and CERTIFICATE OF WARRANTY

SERVICE STATION:

ELEKTRAL ELEKTROMEKANIK SAN. VE. TIC. A.S.
 IZMIR ATATURK INDUSTRIAL ZONE, M.K. ATATURK BLV. 23 CIGLI
 35620, IZMIR/TURKEY
 Tel: +90 (232) 376 7300 Fax: +90 (232) 376 7030
 e.mail: elektral@elektral.com.tr

FULL WARRANTY CERTIFICATE

Your Unit, Model :

Serial/Model No :

Which you purchased on __/__/20__ is hereby warranted against defect in workmanship and material for a period as follows: **1 YEAR**

1. Within the Warranty period, ELEKTRAL will repair or replace, without charge, any part or parts that prove to be defective. The defective instruments should be returned, accompanied by the attached SERVICE OR REPAIR CARD to ELEKTRAL Izmir Ataturk Industrial Zone M.K. Ataturk Blv. 23 Cigli 35620 Izmir-Turkey where the overhaul is performed also.
2. Upon expiration of the Warranty, ELEKTRAL A.S. further guarantees to repair this merchandise at a cost of the current listed ELEKTRAL price.
3. This warranty is void if
 - the instrument has been damaged or broken down through misuse
 - instrument has been altered or tampered with in any way
 - instrument has been damaged through accident, misuse or negligence
 - the seal, ties or stickers on the instrument has been broken
 - damage or defects occur because of through lightning and fire
 - replacement or repair is necessitated be loss or damage resulting from any cause beyond the control of ELEKTRAL
 - the instrument has been used against the instructions stated in the user's manual
 - your warranty has not been among our files by your request with "Warranty Information Card"
 - only ELEKTRAL A.S. is authorized to confirm above mentioned particulars.
 - all price and costs are EXW Izmir-TR. All the transport or travel costs to be borne by the buyer.
4. ELEKTRAL is not to be labeled for loss of other damage allegedly resulting from defects in its products.
5. This Warranty gives you specific legal rights. Please Include Model Number and purchase date in correspondence regarding this instrument.

All Warranty Services are at our Factory. All transportation risks and costs to and pro our Factory belongs to Customer.

Thank you for selecting a product manufactured by ELEKTRAL A.S. Before using your new item please take a minute to read and fill out the forms on the reverse side of this card.

The Warranty Information Card helps us learn more about you and what you purchase. From this information come improvements and new products for you, our valued customers. Please return this card within 10 days of purchase.

The full Warranty Certificate tells you that we stand behind our products and will repair this item as long as you own the product, per the terms of the warranty certificate.

The Service or repair card is your way of communicating with our Customer Service Department should a problem occur. It helps us to quickly service your product and return it as soon as possible. Please complete and include this card whenever you return a product a gain.

Thank you once again for selecting our product. We hope this will be one of the many ELEKTRAL products you will own.

Date/Place Purchased :

Invoice Date, No :

Dealer Company's Title :

Address :

.....

Telephone-Fax :

E-mail :

DEALER COMPANY :



Seal & Signature