

# USER MANUAL

## Modular Space Saver (EU model)

**WARNING**

Read the instructions before using the machine.

## **KEEP THIS USER MANUAL FOR FUTURE USE**

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We advise you to contact your supplier for the guarantee period and conditions. Further we refer to our General Terms and Conditions for Sales and Delivery that are available upon request.

The manufacturer does not accept any liability for damage or injury caused by failing to adhere to these regulations or by not observing the usual caution or care in actions, operation, maintenance, or repair activities, even if not explicitly described in this manual.

As a result of constant commitment to improvement, it may happen that your unit deviates in detail from what is described in this manual. For this reason, the given instructions are only a guideline for the installation, use, maintenance, and repair of the unit referred to in this manual.

This manual has been composed with the utmost care. The manufacturer shall, however, not be held responsible for any mistakes in this manual nor for any consequences thereof.

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### Modifications:

In case of unauthorized modifications in or on the unit, every liability on the part of the manufacturer becomes null and void.

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## 1. INTRODUCTION

### 1.1 General

This is the user manual of the European models of the Modular Space Saver (MSS). The features and controls, along with directions for the safest and most efficient use, for a long life of the unit. All pictograms, symbols and drawings in this manual apply to all MSS (EU) models.

The MSS has been designed to be combined with another different appliance. Refer to the website or contact Fri-Jado for the available combination options. This manual describes the MSS itself which is the bottom appliance of any combination. The appliance placed on top has its own user manual. The combined set use the same power cord.

### 1.2 Identification of the unit

The identification plate contains the following data:

- Name of the supplier or the manufacturer
- Model
- Serial number
- Year of construction
- Voltage
- Frequency
- Power consumption

### 1.3 Pictograms and symbols

In this manual, the following pictograms and symbols are used:



#### **WARNING**

Possible physical injury or severe damage to the unit, if the instructions are not carefully followed.



#### **WARNING**

Hazardous electrical voltage.



#### **WARNING**

Danger of getting injured by hot surfaces.



Suggestions and recommendations to simplify indicated actions.



Recycling symbol.

## 1.4 Safety instructions



### WARNING

The outside and shelves of the unit can be extremely hot.



### WARNING

See installation instructions for grounding requirements.

### 1.4.1 General

The user of the unit will be fully responsible for abiding the locally prevailing safety- rules and regulations.

Only qualified and authorized persons may operate the unit. Anyone working on or with this unit must be familiar with the contents of this manual and carefully follow all guidelines and instructions. Never change the order of the steps. The management must instruct the personnel, based on this manual and follow all instructions and regulations.

The pictograms, labels, instructions, and warning signs attached to the unit, are part of the safety measures, do not cover or remove them. They have to be clearly visible during the entire lifetime of the unit.

Immediately repair or replace damaged or illegible pictograms, warnings, and instructions.

- **WARNING:** when there is an overflow there is a possibility the floor is slippery.
- To avoid short-circuiting, never clean the unit using a water hose. For cleaning instructions, see chapter 5.
- The glass and back of the hot unit can get hot.
- Clean the unit regularly to ensure proper functioning.
- Do not store explosive substances such as aerosol cans with flammable propellant in this appliance.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory, or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Children shall not play with the appliance.
- Cleaning and user maintenance shall not be performed by children without supervision.

### 1.4.2 Moving (when applicable)

When moving the unit:

- Before moving the unit, first switch the unit off and unplug from the wall socket.
- Remove pans containing liquids and all products from the unit prior to moving the unit.
- Always keep the unit in upright position and all doors closed.

### 1.4.3 Outdoor use restrictions



#### WARNING

To avoid short-circuiting, the units may not be used outdoors or in a rainy or very moist environment.

### 1.5 Hygiene



#### WARNING

Immediately remove products in damaged packaging from the equipment and destroy the products. Clean all components that have come in contact with products from damaged packaging.

The quality of a fresh product always depends on hygiene. It is essential that products are packaged immediately after preparation. The core temperature of the products should be at least be 85 °C when they are placed in the unit.

Refer to the cleaning instructions of section 5.

### 1.6 Service and technical support

The electrical schematics of the unit are included. In case of malfunctions, contact the dealer/service agent. Make sure the following data from the identification plate is available:

- Model.
- Serial number.

### 1.7 Storage

Store the unit according to these instructions when the unit is not in use:

- Clean the unit thoroughly and dry.
- Wrap the unit from getting dusty.
- Store the unit in a dry, non-condensing environment.

### 1.8 Disposal



Dispose of the machine, any components or lubricants removed from it safely in accordance with all local and national safety and environment requirements.

## **2. DESCRIPTION OF THE UNIT**

### **2.1 Intended use**

Use this appliance to keep packaged products warm and to display them. Any other use will not be regarded as intended use.

This appliance has been designed to support a second appliance on top of itself, refer to the website or contact Fri-Jado for the available combination options.

This appliance is intended for commercial applications, for example in kitchens of restaurants, canteens, hospitals and in commercial enterprises such as bakeries, butcheries, etc., but not for continuous mass production of food.

The manufacturer accepts no liability whatsoever for loss or injury caused by failing to strictly adhere to the safety guidelines and instructions in this manual or due to carelessness during installation, use, maintenance, and repair of the unit referred to in this manual and any of its accessories.

Use the unit in perfect technical condition only.

### **2.2 Technical description**

Heating is achieved by means of heated shelves in combination with a hot-air curtain. The air curtain isolates the hot air inside the unit from the ambient air.

An electronic thermostat controls the temperature. The thermostat has been set at the correct value at the factory. This value can be changed between 40 °C and 70 °C. One LED-module per level provides for lighting of the products.

The control panel is on the front side of the unit.

The metal panels are galvanized steel, stainless steel, or aluminium. The frame of the unit is powder-coated steel. The windows are tempered glass or laminated glass. The product-contact parts are stainless steel AISI 304 or AISI 430, powder coated metal and tempered glass.

The design of the wheels allows for a maximum total load of 450 kg.

### **2.3 Accessories**

Your unit contains the following standard accessories:

- User manual.
- Electrical schematics.

For optional accessories see [www.frijado.com](http://www.frijado.com).

### 3. INSTALLATION AND FIRST USE



All packing materials used for this unit are suited for recycling.

Before and during unpacking, check the state of the unit. In case of damage, store the packing material, and contact the transporter within fifteen working days after receiving the goods.

#### 3.1 Unpacking the unit

Follow the unpacking instructions (9124942) to remove the unit from the pallet.

#### 3.2 Installation and positioning



##### **WARNING**

Electric shock hazard. Grounding instructions: only connect the appliance to an alternating current provided by a grounded wall socket, with a mains voltage in accordance with the information indicated on the data plate of the appliance.

It is the consumer's responsibility to make sure the electrical installation conforms with current national and local codes and wiring regulations.

Do not use a multi plug or extension cord. Such can result in fire, electrical shock, or other personal injury.

Failure to follow these instructions can result in death or severe injury.



##### **WARNING**

Position the unit on a flat and horizontal surface. An inclined plane of maximum 5° is allowed during transportation/relocation. Always remove products from the unit prior to moving the unit.

Refer to installation instruction 9124944 for placing and connecting the top unit on the MSS.

Place the unit level on a sufficiently sturdy floor prior to beginning the stacking procedure. Keep the weight of the unit in mind.

Only place specified Fri-Jado approved appliances on top of the MSS

- Be sure that the personnel have sufficient room to work with the unit.
- While positioning, keep the unit out of children's reach.
- Cold air flow has a negative effect on the performance of the unit, therefore do not position a unit near a doorway, a ventilation device, or a refrigerator. The design of the unit allows for a maximum draft of 0.2 m/s (0.65 ft./sec).
- Do not place into direct sunlight.
- For optimal performance the unit should not be used at ambient temperatures below 20 °C.
- The unit has a mains plug, and must be connected to a wall socket with the proper mains voltage. The wall socket must be mounted by a certified electrician.
- When applicable, connect the unit to the water mains. Minimum water pressure of 150 kPa. Maximum water pressure of 600 kPa. Recommended water pressure of 150 – 200 kPa.

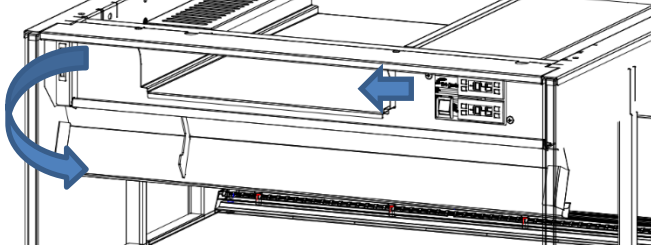


### 3.3 Waste management

#### 3.3.1 Grease

The grease produced by the grill is collected in the grease tray located in the middle of the machine next to the control panel.

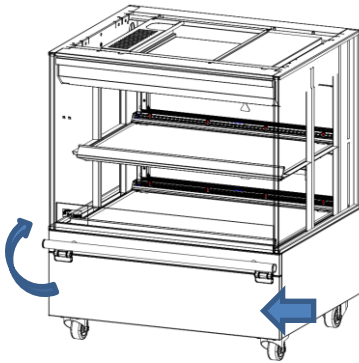
Empty the grease tray after each cooking cycle.



#### 3.3.2 Wastewater (optional)

In case the grill has an auto-clean function and no permanent drainage is installed, a water trolley placed below the unit collects the wastewater. Be sure to always empty the trolley after each cleaning and place it back in the original position.

Failing to do so will cause the water to be spilled on the floor and may cause safety hazards.



### 3.4 First use

Before using the unit, clean the inside thoroughly with mild detergent and water. After cleaning it wipe it with a cloth moistened with clean water to remove residual detergent, then dry the entire unit.

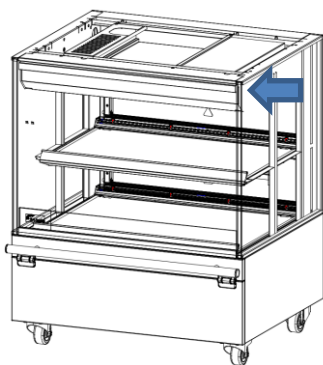
## 4. OPERATION AND USE



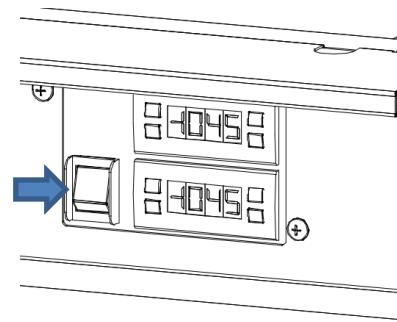
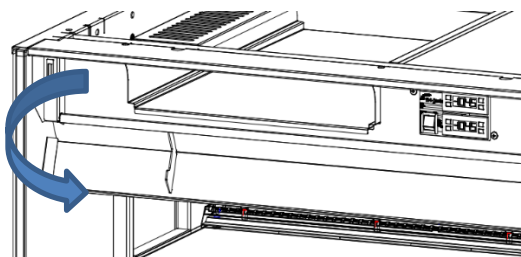
The display and/or set value is not the product/unit temperature.

### Control Panel

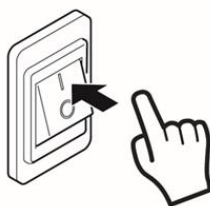
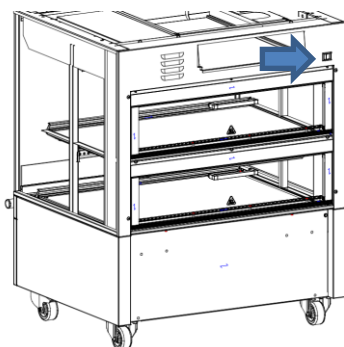
Main Switch.



Front switch



Rear switch



### Temperature controller

- ⏻ On/Off \*
- ⬆ Up
- ⬇ down
- Set Enter key



\*Switch on/off: hold for approx. 3 sec.

### 4.1 Operating



The unit is set at 65 °C intake air temperature. If required, this temperature can be adjusted with the controller.

At an ambient temperature of 20 °C and an initial product core temperature of 85 °C ensure a constant core temperature of at least 65 °C for 4 hours.

### Switching-on the unit

- Switch the unit on.
- Preheat the unit for approx. 30 minutes.

### Loading the unit

- Only place products that have a core temperature of at least 85 °C.
- Only package the hot products in bags or containers that are suitable for this purpose.
- To ensure a good contact with the heated trays, only place a single layer of products.
- The maximum loading height is 50 mm below the bottom of the shelf/air guide above.
- The maximum carrying-capacity per shelf is 30 kg, by equal load.

### Checking the SET temperature

1. Scroll through the folders with the  $\Delta$  and  $\nabla$  buttons until you find the folder **Pb1**, **Pb2** or **Pb3**.
2. Press **SET** to view the value measured by the corresponding probe.

### Adjusting the SET Temperature

1. During operation the display of the thermostat shows the temperature in the unit.
2. Push twice on the **SET**-button. The set temperature will appear on the display.
3. Push the  $\Delta$  and  $\nabla$  button within 15 sec.
4. Adjust the set temperature by means of the  $\Delta$  and  $\nabla$  buttons.
5. Push once on the **SET**-button to store the new set temperature.

### Checking the product temperature

- Regularly check the temperature of the product (once every hour is advised).
- Use a digital thermometer.
- Write down the measured values in a log.
- Always use a disinfected thermometer sensor.

### Switching off

- Remove all products from the unit. In order to avoid temperature drop of the products, store them in another warm holding unit.
- Switch the unit off.

## 5. CLEANING AND MAINTENANCE



### WARNING

Never use a water hose for cleaning. Water can seep into the unit through the ventilation holes of the unit.

Disconnected the appliance from their power supply during cleaning or maintenance and when replacing parts.



Because of hygiene aspects and optimum condition of the unit it is of utmost importance to keep a daily cleaning pattern from first use onwards.

### 5.1 Maintenance schedule

Item	Action	Frequency
Inside	<ul style="list-style-type: none"> <li>Clean, see section 5.2.</li> </ul>	Daily
Outside	<ul style="list-style-type: none"> <li>Clean, see section 5.3.</li> <li>Use Stainless Steel cleaning spray to remove stains, and restoring the gloss.</li> </ul>	Weekly
Glass panes	<ul style="list-style-type: none"> <li>Use a mild detergent to clean the glass</li> </ul>	Weekly

### 5.2 Daily Cleaning

- Clean the inside of the unit with hot water and a suitable cleaner.
- After cleaning wipe the inside with a clean wet cloth. Be sure that the detergent is removed properly.

### 5.3 Weekly Cleaning



### WARNING

The control panel may only be cleaned using a damp cloth.

- Clean the outside of the unit with a small amount of hot water and a mild detergent and using a soft brush or sponge. After cleaning it dry the outside with a cloth.
- Treat all cleaned surfaces with a suitable antibacterial agent.
- Rub dry with a soft cloth or a paper towel.

## 6. MALFUNCTIONS AND SERVICE

Before you consult your dealer or the service agency when there is a fault, you can check the following points yourself:

- Is the power supply OK? Check the fuses and the earth leakage switch in the meter cupboard.
- Are all the switches in the correct position?

Item	Malfunction	Possible action
Unit	Unit does not work	<ul style="list-style-type: none"> <li>• Check the power supply.</li> <li>• Are all switches in the correct position.</li> </ul>
Unit	Display shows error code	<ul style="list-style-type: none"> <li>• Contact your supplier or service agency.</li> </ul>
Lamp	Does not light up	<ul style="list-style-type: none"> <li>• Switch ON.</li> </ul>
Mains cord	Damaged	<ul style="list-style-type: none"> <li>• Replace, see section 6.1.</li> </ul>
Window	Damaged	<ul style="list-style-type: none"> <li>• Replace, contact your supplier or service agency.</li> </ul>

### 6.1 Replace the mains cord



#### **WARNING**

Hazardous electrical voltage.

If Immediately contact the supplier or service agent to replace a damaged power cord. Never turn the unit on when the power cord is damaged.

## 7. TECHNICAL SPECIFICATIONS



### WARNING

Consult the identification plate to get the proper specifications of the unit. The electrical data may vary from country to country.

Specification		Model
Length	mm	900
Depth (pass through)	mm	823
Depth (solid back)	mm	804
Depth (incl. extraction hood)	mm	853
Height	mm	1080
Height (TDR 5 AC)	mm	2000
Height (TDR 5 M/S)	mm	1946
Height (EG 5)	mm	1946
Height (TG 4)	mm	1796
Weight (net)	kg	133
Weight (gross)	kg	165
Packaging dimensions (W x D x H)	mm	980 x 920 x 1310
Dimensions bottom shelf	mm	550 x 800
Dimensions top shelf	mm	475 x 800
Shelf display area	m <sup>2</sup>	0,82
Usable display volume	l	149
Voltage	V	3N~ 400/230V
Current	A	5.3
Frequency	Hz	50

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