

Compact Fully Automatic Tablet Packaging Machine



L i t r e a I I I

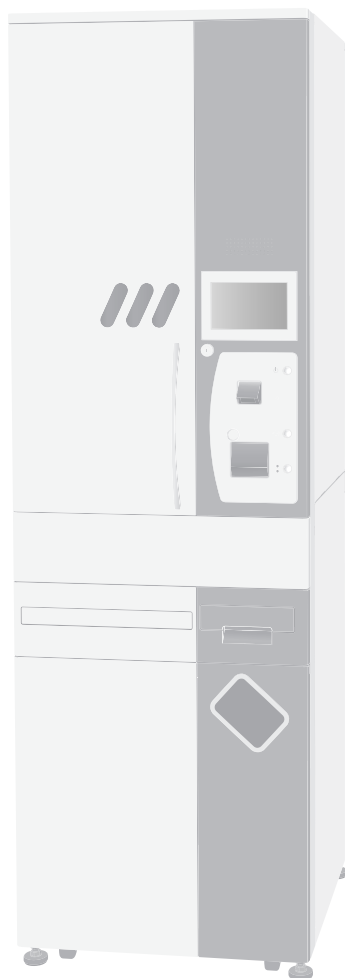
Instruction Manual



With Warranty Attached

Thank you for purchasing our fully automatic tablet packaging machine, Litrea III.

- Please read this instruction manual carefully and use the product safely and correctly.
- Please keep the manual with the warranty in a safe place.



For Your Safety

Please read this instruction manual carefully and use the product safely and correctly.
Especially, read "Safety Precautions" (P. 3) carefully in advance.

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1. The Manufacturer shall not be responsible for any damage or accident causing injury or death resulting from the following:
 - (1) installation, relocation, modification, maintenance, and repair by unauthorized agent,
 - (2) use of unauthorized products,
 - (3) modification, maintenance, and repair using unauthorized repair parts,
 - (4) disregard of the safety and operation instructions described in this manual,
 - (5) ambient conditions which deviate from the use conditions for this product described in this manual, and
 - (6) natural disasters such as fire, earthquake, flood, and thunderbolt.
2. The user (hospital, clinic, pharmacy) shall be responsible to use and maintenance of the machine.
3. Some operations and illustrations in this manual might be slightly different from the actual machine.
We apologize for your inconvenience in advance.
4. (P.00) indicates a reference page in this manual.
5. In case of using images other than those provided, the law prohibits copying or reproducing copyrighted materials without permission.
Be careful not to infringe on any copyrights when importing images (illustrations) for printing.

Safety Precautions

Please follow the instructions in this manual for safe use of the product.

This instruction manual defines levels of risk and damage caused by erroneous use by the neglect of written instructions with the following symbols:

 WARNING	This symbol indicates the presence of a hazard that may result in death or serious personal injury.
 CAUTION	This symbol indicates the presence of a hazard that may result in minor personal injury or only property damage.

	This symbol indicates attention.
	This symbol indicates prohibition.
	This symbol indicates mandatory action.

➔ Safety Precautions (Continued)

WARNING

	Do not touch switches with wet hands. Doing so may result in an electric shock or injury.
	Do not plug or unplug the power cable with wet hands. Doing so may result in an electric shock or injury.
	Ground the product securely. Earth leakage due to problems such as failure may result in electric shock. Be sure to ask a specialist to ground the product.
	Never attempt to disassemble, repair, or modify the product. Doing so may cause a fire or personal injury due to a malfunction. Unauthorized person is not allowed to disassemble and repair the product. Also, never modify the product.
	Never touch the heat roller while it is heated and right after the power is turned off. Doing so may result in a burn injury.
	Do not touch the packaging unit during the paper feed operation. Doing so may result in a burn injury.

CAUTION

	Do not apply strong vibration or shock to the product. This product has sensitive electronic components inside, thus doing so may cause a failure. Also, be sure to prevent foreign substances such as pieces of paper and metals from entering the product.
	Do not place the product near a heater or under direct sunlight. Do not place the product in the following environments: place near a heater or under direct sunlight, humid and dusty place, unstable place, and place that cannot support the product weight.
	Do not touch the DTA tray while it is in operation. Doing so may cause your hand to be caught, resulting in an injury.
	Do not turn on and off the power repeatedly in a short period of time. Doing so may cause the heater to be overheated, resulting in the seal being burnt.

	Do not use the product when it is wet. If the machine gets wet by flood damage or any other reasons, do not use the machine but contact your sales agent immediately.
	Do not place the product near a noise generator. This product has sensitive electronic components inside, thus doing so may cause a failure.
	Stay away from the conveyor unit during dispensing. Failure to do so may cause your figures and hair to be caught, resulting in an injury.
	Disconnect the power plug immediately if the power cord and the plug are deteriorated. Damaged power cord/plug, loose plug connection or dusty outlet may cause electric shock, heat generation and fire. If any abnormal condition is detected, stop operation and disconnect the power plug.
	Use a dedicated outlet for this product. Using an outlet whose voltage and capacitance are incompatible may cause heat generation and fire. Also, capacitance shortages and voltage fluctuations may cause a malfunction. Therefore, be sure to use a dedicated outlet for this product.
	Clean the dispensing route securely. Clean the dispensing route securely in order to avoid contamination by remaining medicine.
	Use the genuine Yuyama packaging paper. In order to avoid dispensing error, be sure to follow the procedure in this manual when replacing the packaging paper and use the genuine Yuyama packaging paper.
	Stop the operation immediately if any abnormal condition is noted. Stop the operation immediately if any abnormal condition, such as a malfunction is noted.
	Use the product under the specified ambient conditions. Use the product in the following ambient conditions: Temperature range should be between 10°C and 35°C . (Guaranteed operating range) The humidity range should be between 15% and 85%. (No condensation allowed) However, use the product at humidity of 48% or less when the temperature is 35°C and at temperature of 28°C or less when the humidity is 85%. When the auto four-color penliner (option) and inkjet printer (option) are installed, the ambient temperature should be between 15°C and 30°C (guaranteed printing temperature).
	Perform an annual periodic inspection. In addition to routine inspections and maintenance, we recommend to inspect all the parts once every year to ensure the safe operation.
	Use the canisters for soft capsules under the specified ambient conditions. Keep the following ambient conditions all day when using the canisters for soft capsules: the temperature is 26°C or less, and the humidity is 55% or less. Also, be sure to store soft capsules under the prescribed conditions for each.

FCC Compliance Statement

FCC Part 15.19

This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this equipment may not cause harmful interference, and (2) this equipment must accept any interference received, including interference that may cause undesired operation.

FCC Part 15.105(a)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Part 15.21

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. The antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

ISED Compliance Statement

CAN ICES-3 (A)/NMB-3(A)

RSS-Gen 7.1.5

Operation is subject to the following two conditions: (1) this equipment may not cause interference, and (2) this equipment must accept any interference, including interference that may cause undesired operation of the equipment.

Son utilisation est assujettie aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage et (2) l'appareil doit supporter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre son fonctionnement.

RF Exposure Compliance Statement

- 1) To comply with FCC/IC RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons.
Afin de se conformer aux exigences d' exposition RF FCC / ICSED, cet appareil doit être installé pour fournir au moins 20 cm de séparation du corps humain en tout temps.
- 2) This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
Cet émetteur ne doit pas être installé au même endroit qu' une autre antenne ou émetteur ou utilisé conjointement à une autre antenne ou émetteur.

Routine Inspection of Power Cord and Plug

For safe use of the product, it is necessary to handle the power cord properly. Improper handling may result in a fire or electric shock. Thus, it is extremely dangerous. Be sure to check the power outlet (cord) and plug regularly.

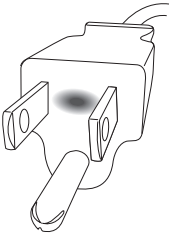
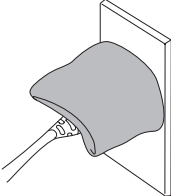
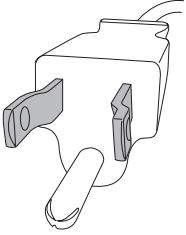
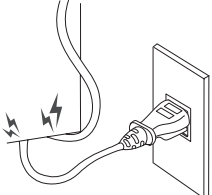
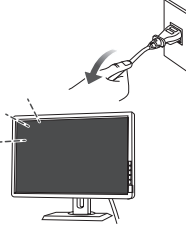
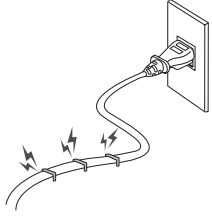
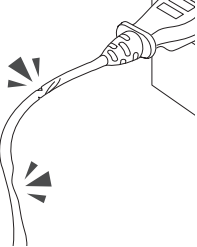
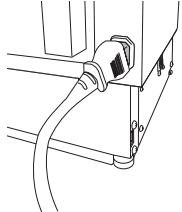
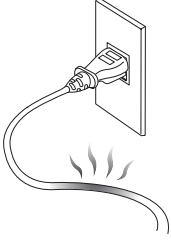
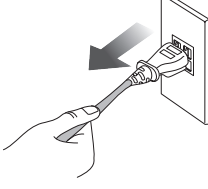
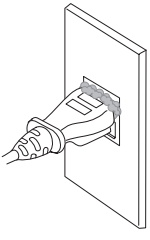
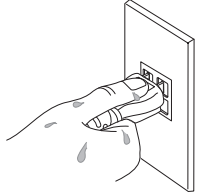
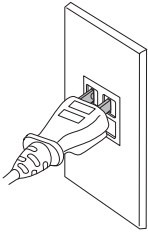
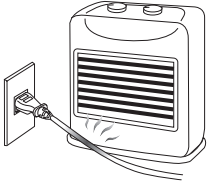
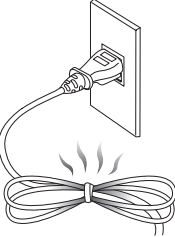
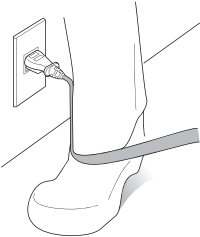
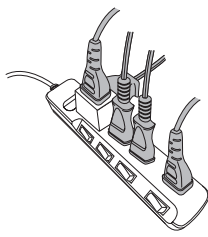
Illustration	Symptom	Action	Illustration	Symptom	Action
	There are burn marks on the power plug due to tracking phenomenon*.	Contact your sales agent.		The power outlet is covered with an object such as a towel.	Remove an object covering the power outlet.
	The power plug prong is deformed.			Stress is being applied to the power cord.	Position the power cord so that it is not subject to stress.
	The power supply goes off and on when the power cord is bent.				
	There are cuts, cracks, or indentations on the power cord.			The power connector is loose.	Insert the power connector all the way in.
	A part of the power cord becomes hot.			The power cord is unplugged by pulling on the cord.	Grasp the plug when unplugging the power cord.
	The power outlet and plug are covered with dust.	Turn off the power, and pull out the power plug. Wipe the power outlet and plug with a dry cloth.		Connect or disconnect the power plug with wet hands.	Dry your hands before connecting or disconnecting the power plug.

Illustration	Symptom	Action	Illustration	Symptom	Action
	The power plug is loose.	Insert the power plug all the way in.		The power cord is exposed to heat sources.	Position the power cord so that it is not subject to heat sources.
	The power cord is tied in a bundle.	Do not tie the power cord in a bundle.		The product and power strip are placed in a place where it is exposed to water.	Do not use electrical devices at a place where it is exposed to water.
	The power cord is left in a walkway.	Position the power cord so that it does not obstruct a walkway.		An excessive number of plugs are connected to the power strip.	Do not connect an excessive number of plugs to the power strip.

* Tracking Phenomenon

When the plug is inserted into the outlet or power strip for a long time, dust is accumulated between the outlet and the power plug. As the dust absorbs moisture, a spark discharge occurs repeatedly between them.

Then the insulation becomes ineffective and heat is generated by current flowing between two electrodes. Thus, it triggers a fire.

This is called "Tracking Phenomenon" .

Follow the instructions below when installing this product.

- Install this product where the surface is stable and level.
If this product is installed in an unstable location, the product may fall, resulting in injury or damage.
- Install this product indoors.
- Do not install the product in a location where the humidity is high or it is exposed to water.
Doing so may cause a malfunction.
- Do not install this product in a location where it is exposed to direct sunlight, heat, and cold air.
Doing so may cause a malfunction.

Leave an enough space between this product and the surrounding walls.

- Ensure to leave a space of 10cm or more on the rear, right, and left sides.
Also, leave sufficient space around the power outlet so it can be easily unplugged in case of an emergency.
Note: If the slide unit (option) is installed, leave an enough space on the right side of the slide unit for cleaning.

Use the product in the following ambient conditions:

The temperature range should be between 10°C and 35°C (guaranteed operating range).

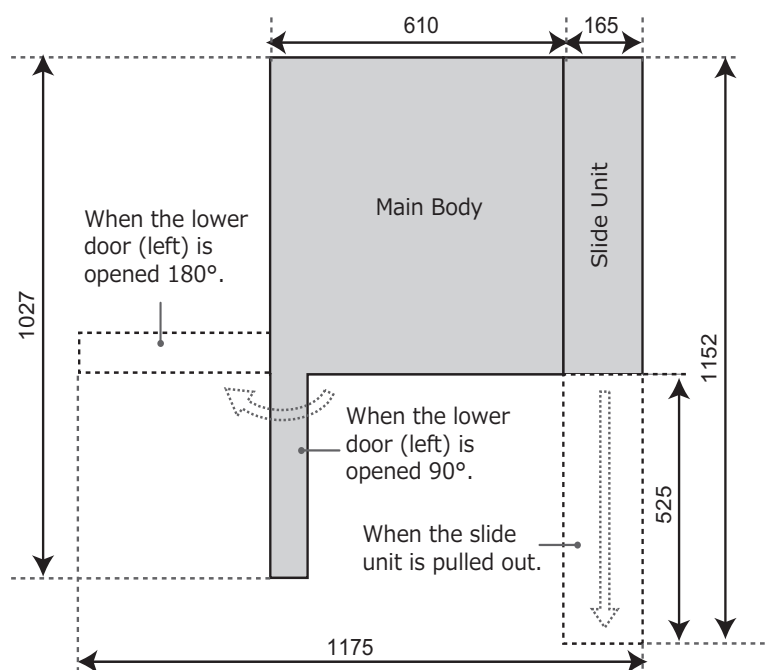
The humidity range should be between 15% and 85% (no condensation).

Use the product at humidity of 48% or less when the temperature is 35°C and at temperature of 28°C or less when the humidity is 85%.

When the auto four-color penliner (option) and inkjet printer (option) are installed, the ambient temperature should be between 15°C and 30°C (guaranteed printing temperature).

Installation layout

- The minimal required installation space is as shown below. (Unit: mm)



Use a dedicated outlet for this product.

A 120VAC or 230VAC outlet is required depending on the standard in the geographic area of use.

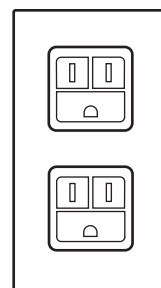
If the power supply is not sufficient, the product will not operate.

Also, do not share the outlet with other appliances.

- Be sure to ground the product.

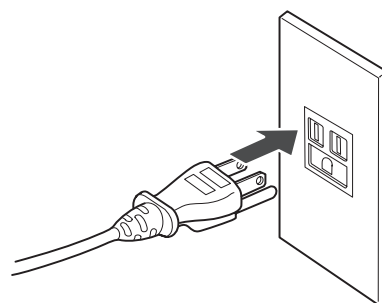
Do not ground the product to a water pipe or gas pipe.

- Use the hospital-grade power plug and outlet (JIS T1021).
- Have the class D grounding installation made by a qualified electrician.
(Ask an electrical contractor.)

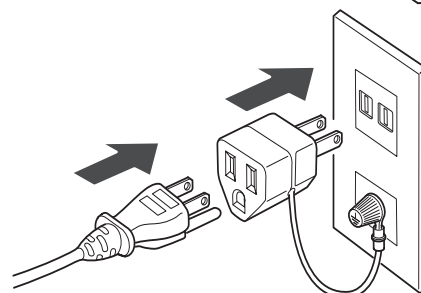


Connecting the power plug

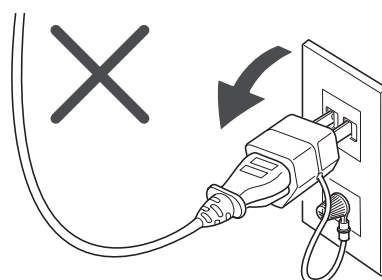
- Be sure to use a dedicated outlet with an earth terminal.



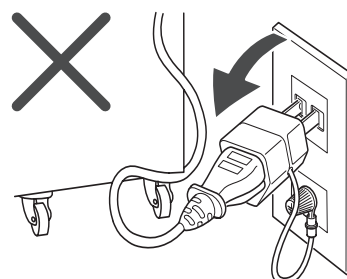
- If you do not have an outlet with an earth terminal and use an adapter, securely ground the product using the grounding lead.



- Insert the power plug securely into the outlet.



- If the power cord is squeezed or snagged, leave an enough space and insert the power plug all the way into the outlet.



WARNING

Do not use the product when the power cord and plug are damaged or the plug is loose. Doing so may cause a fire due to short circuit or electric shock.

■ Precautions for Use of Consumable Goods such as Packaging Paper and Ribbon

CAUTION

Be sure to use the genuine consumable goods such as packaging paper and ribbon.

Using non-genuine consumable items may cause a malfunction. The Manufacture is not responsible for any trouble resulting from the use of non-genuine consumable items.

- We reserve the proprietary rights of the plastic core.
The plastic core is provided for free in order to maintain a quality of the packaging paper until the paper roll becomes empty.
Our sales staff or our sales agent of the packaging paper will visit you to collect the plastic core, thus please keep the plastic core in safe after the paper roll becomes empty.
- You shall not be allowed to sell, give, and lend the plastic core to a third party without permission.

■ Precautions for Use of Auto Four-Color Penliner (Option)

CAUTION

- The indoor temperature must be 30°C or less.
If the indoor temperature is higher than this value, the pen ink might be dried up.
- The penliner unit must be opened along with the heat roller when replacing the packaging paper and etc.
Note: Refer to "Usage Guide for Auto Four-Color Penliner" for operation details.

Power Saving Mode

This product (Litrea III) can reduce the power consumption during the waiting time by use of the power saving mode.

There are two power saving mode types:

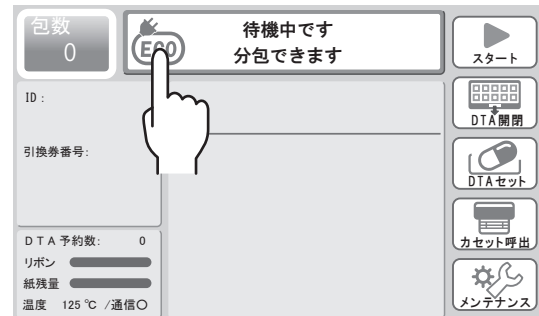
- (1) Power Saving Mode 10% OFF: In this mode, the heat roller is set to 90°C and the power consumption during the waiting time is reduced by at least 10%.
- (2) Power Saving Mode 20% OFF: In this mode, the heat roller is set to off and the power consumption during the waiting time is reduced by at least 20%.

Note: When the power saving mode is set to 20% OFF, the heat roller control completely stops working. Thus it takes about 6 minutes to recover.

Manual Power Saving Mode

When the power saving mode is set to "1: Yes" in the environment settings, you can activate the power saving mode manually. There are two methods to activate the power saving mode manually: from the machine and from the computer.

Machine: Tap [ECO] displayed on the touch panel during the waiting time or rapid heating operation.



Computer: Click [ECO] displayed when clicking each machine number icon on the progress monitor (detail).



Conditions to Disable the Power Saving Mode

The power saving mode is not available when the packaging machine is in the following conditions:

- (1) An error or warning occurs.
- (2) The start-up initialization is in process.
- (3) The packaging machine is in the prescription data receiving status.
- (4) The string of pouches is not cut after dispensing is completed when it is set to be left uncut.

Behavior in the Power Saving Mode

Machine: The control panel is turned off and the temperature of the heat roller is kept to 90°C .
(The heat roller can be completely turned off by setting manually or configuring the settings.)

Computer: The backlight is turned off.

➡ Power Saving Mode (Continued)

Operation in the Power Saving Mode

Machine: When the touch panel is touched, it is turned on.

Note: The operation is limited only to canister search and filling.

Computer: The backlight is turned on when clicking on the monitor.

The operation such as settings and releasing scripts is available.



CAUTION

When no panel operation is performed for 3 minutes after the backlight is turned on, the backlight is turned off again.

How to End the Power Saving Mode

- (1) When ending the power saving mode manually from the machine, press the power button on the machine.
- (2) When the schedule is set in the environment settings, the power saving mode ends after the scheduled time is passed.
- (3) The power saving mode ends when the machine receives the prescription data.
- (4) When ending the power saving mode from the computer, click [ECO] displayed on the progress monitor (detail).



Power Saving Mode Schedule Settings

If the schedule is set in the environment settings, the power saving mode will start when the start time comes.

(e.g.) The start time of the power saving mode is set to 12:00, the end time is set to 13:00, and the timer is set in the power saving mode settings.

If the timer is set to 10 minutes, the power saving mode starts at 12:00 when dispensing is completed by 11:50.

If dispensing is continued until 12:15, the power saving mode starts at 12:25.

Note: The timer setting indicates a time to start the power saving mode after it is temporarily canceled.



CAUTION

Even though the user operates the screen, the power saving mode starts when the start time comes and the backlight of the screen is turned off.

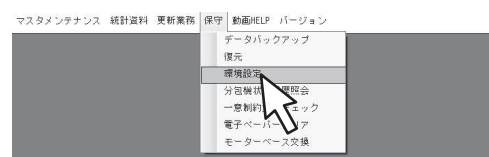
Setting Procedure

There are two methods to set the power saving mode: through the system and machine.

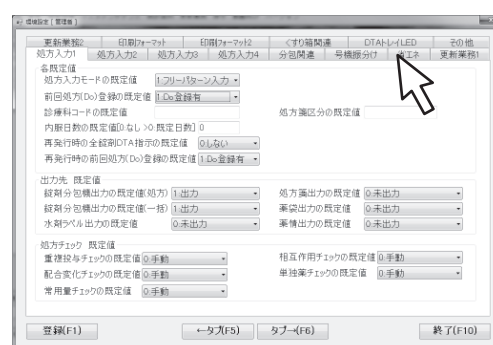
■ Setting through the System

1 Enter the Power Saving Mode Settings Window.

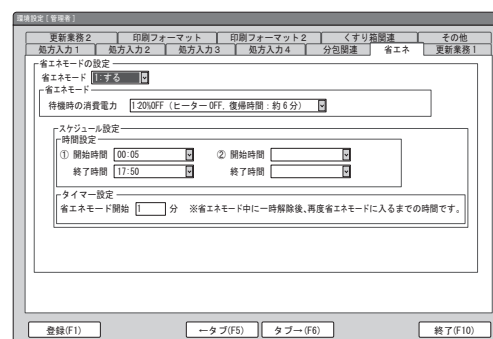
Click [Maintenance] and then click [Environment Settings].



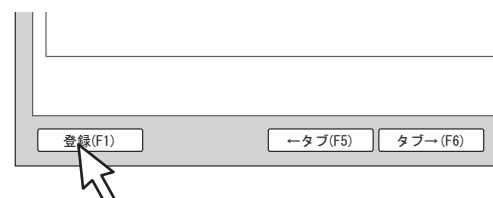
Click the [Power Saving] tab on the upper side of the window.



Set each setting item on the power saving mode settings window. For more details about each setting item, refer to the Power Saving Mode Settings Window (P.16).



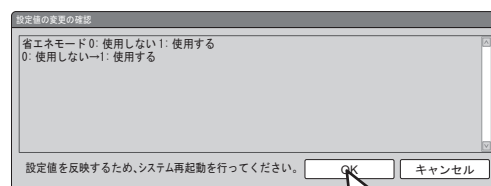
2 Click [Save].



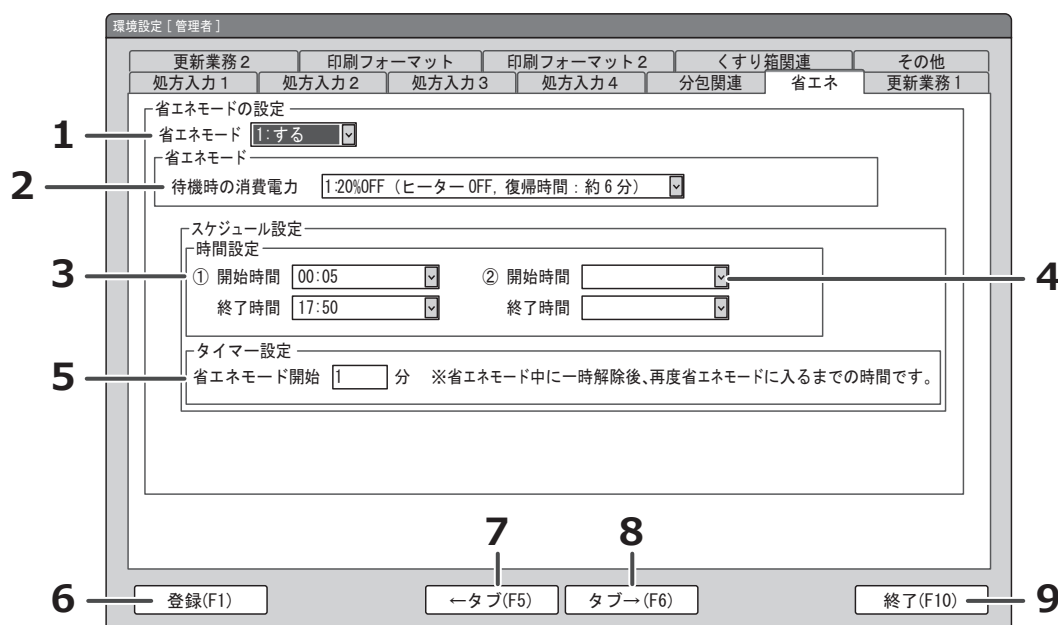
➡ Power Saving Mode (Continued)

The settings change confirmation dialog will appear.

Click [OK] and restart the system to enable the changes.



■ Power Saving Mode Settings Window



No.	Description				
1	Sets whether or not to use the power saving mode.				
2	Sets the reduction rate of the power consumption during the waiting time at 10% or 20%. <table border="1"> <tr> <td>10% OFF</td><td>Heater temperature: 90℃ It takes about 3 minutes to recover the heat roller temperature.</td></tr> <tr> <td>20% OFF</td><td>Heater temperature: It is completely turned off. It takes about 6 minutes to recover the heat roller temperature.</td></tr> </table>	10% OFF	Heater temperature: 90℃ It takes about 3 minutes to recover the heat roller temperature.	20% OFF	Heater temperature: It is completely turned off. It takes about 6 minutes to recover the heat roller temperature.
10% OFF	Heater temperature: 90℃ It takes about 3 minutes to recover the heat roller temperature.				
20% OFF	Heater temperature: It is completely turned off. It takes about 6 minutes to recover the heat roller temperature.				
3	Sets the first start and end times of the power saving mode. The available time is from 0:00 to 23:55 with an interval of 5 minutes.				
4	Sets the second start and end times of the power saving mode. The available time is from 0:00 to 23:55 with an interval of 5 minutes.				
5	Sets the amount of time until starting the power saving mode. The maximum value of this timer is 99 minutes.				
6	Saves the settings.				
7	Moves to the previous tab.				
8	Moves to the next tab.				
9	Closes the settings window.				

■ Setting through the Machine

1 Activate the power saving mode.

Tap [ECO] displayed on the touch panel during the waiting time or rapid heating operation.



2 The backlight is turned off.

The backlight is turned off.

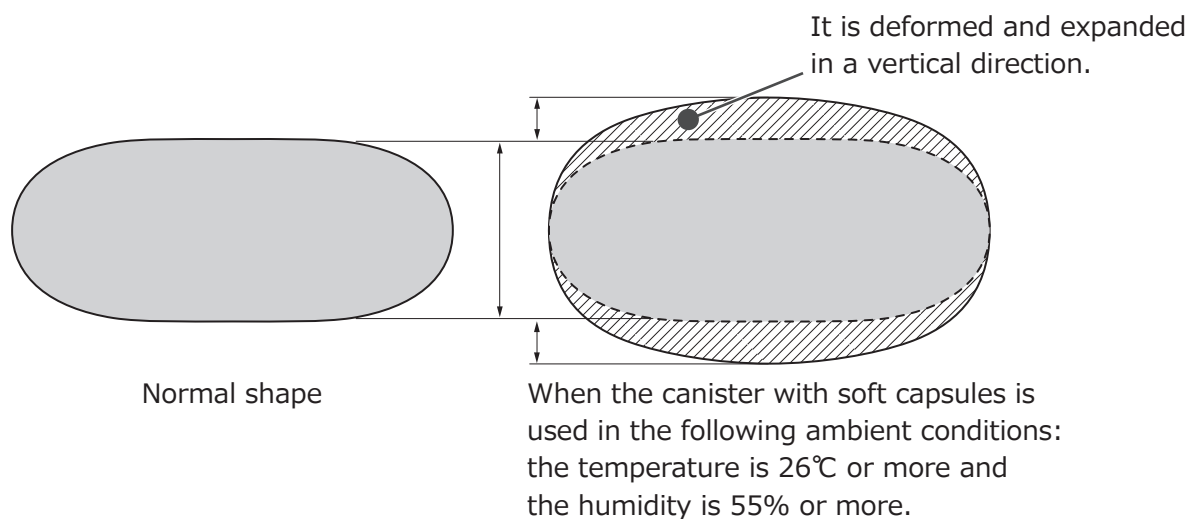


When you tap the touch panel, the backlight turns on.



How to Handle Soft Capsules

Depending on the use environment, soft capsules may stick to each other in the canisters and it may result in a dispensing error.



Note: Follow the warnings below when using canisters with soft capsules.



WARNING

- (1) Avoid the following conditions to store the canisters with soft capsules: the temperature is 26°C or more and the humidity is 55% or more.
- (2) When the air conditioner is turned off, such as after the end of business hours, be sure to store the canisters with soft capsules under the prescribed conditions for each or in a temperature-adjustable refrigerator.

Note: The temperature must be 26°C or less and the humidity must be 55% or less to store the canisters with soft capsules.

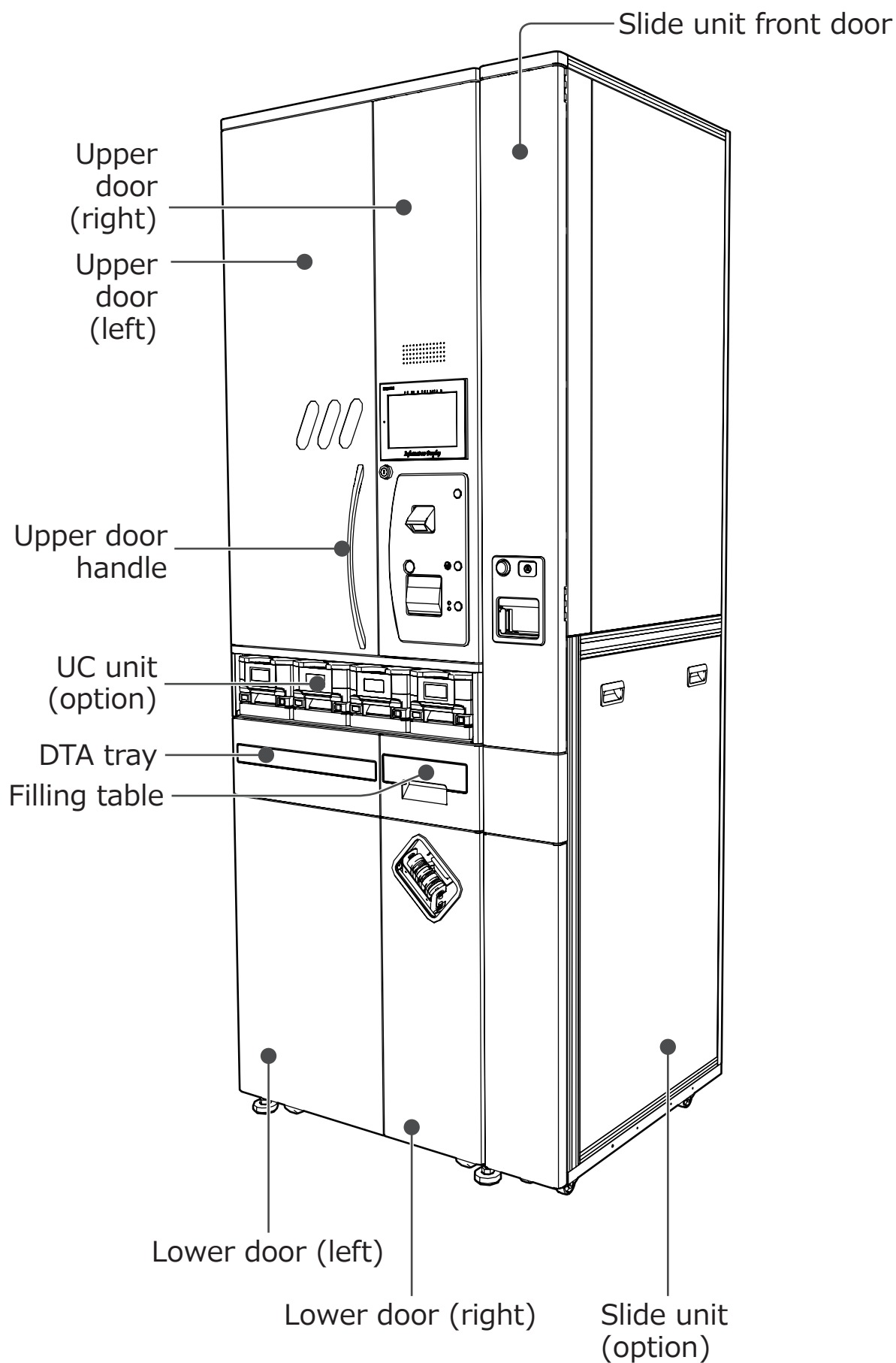
■ Deformable Soft Capsules Depending on the Use Environment

Atanaal capsules 10	Epara capsules 300
Adalat capsules 10mg	Emeradole capsules 300
Adalat capsules 5mg	Ersibon capsules 0.25 μ g
Atheropan capsules 300	Casanmil capsules 5mg
Amadora capsules 25mg	Calcitamin capsules 0.25 μ g
Alcadol capsules 0.25	Caltol capsules 0.25
Alcadol capsules 1.0	Calfalead capsules 0.25
Alfacalcidol capsules 0.25 μ g	Clessepa capsules 300
Alpha three capsules 0.25 μ g	Clofibrate capsules 250mg
Arowtohl capsules 0.25	Kelnac capsules 80mg

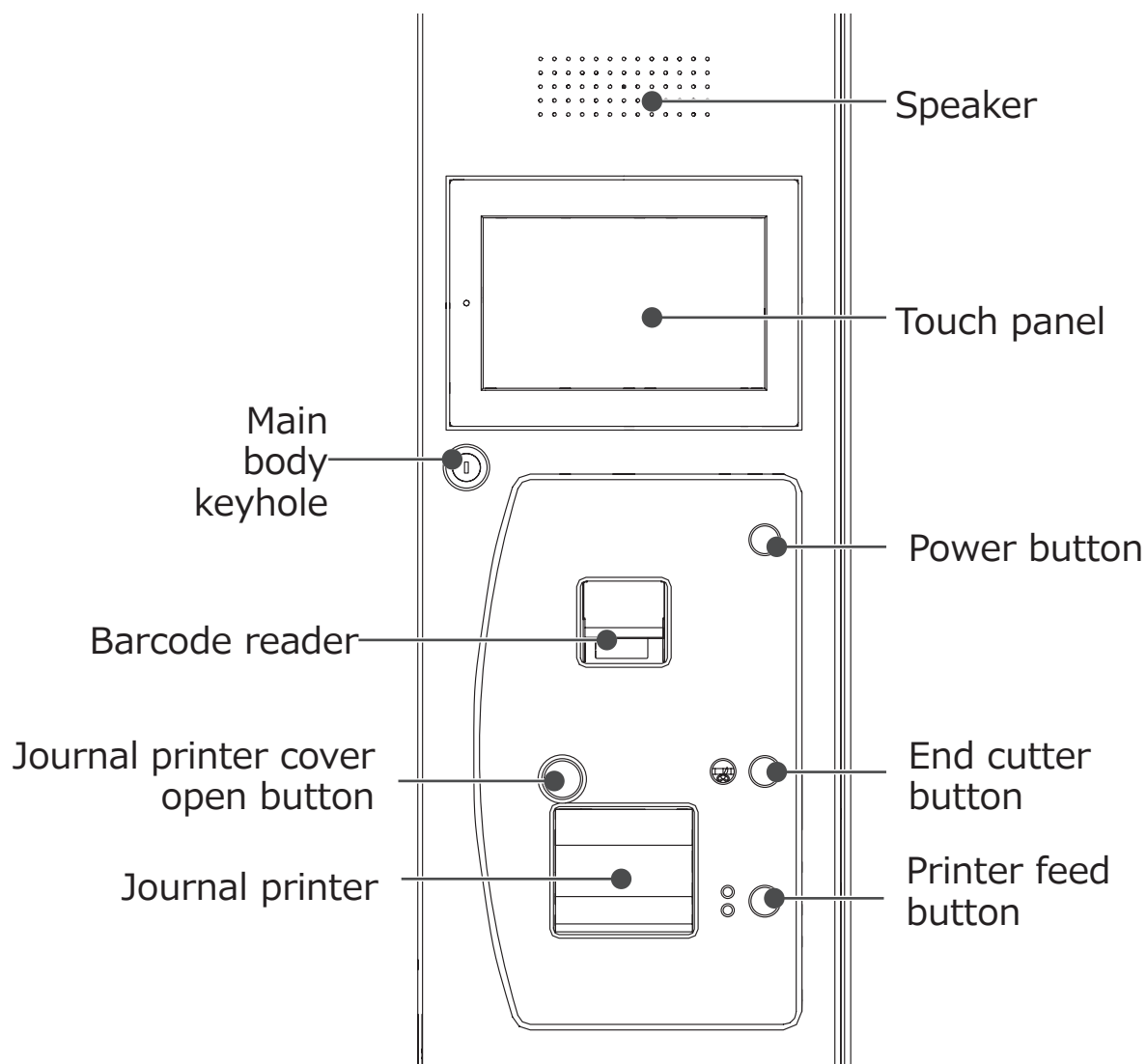
Icosapentate capsules 300	Ciclosporin capsules 10mg
Infree S capsules 200mg	Cislecon capsules 300
Epacap soft capsules 300mg	D-alpha CP0.25
Epadel capsules 300	Dekasoft capsules 10mg
Epafiel capsules 300	Tocool capsules 200mg
Toyofarol capsules 0.25	Menatetrenone capsules 15mg
Nico 200 soft capsules	Melbural capsules 300
Nifelat capsules 5mg	Yatorip capsules 300
Nonsol capsules 300	Lampren capsules 50mg
Picorula capsules 2.5mg	Rocaltrol capsules 0.25
Hemocuron capsules 200mg	NE soft capsules 200mg
Porosave capsules 0.5 µg	Rocaltrol capsules 0.25
Metapass capsules 300	NE soft capsules 200mg

Note: As for the soft capsules other than noted above, be sure to store them under the prescribed conditions for each.

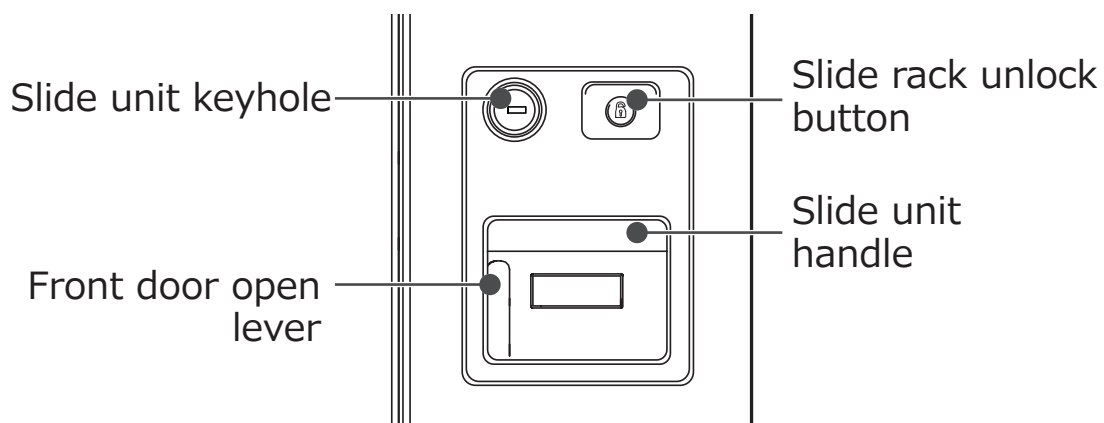
Exterior of Main Body



Exterior of Main Body (Control Panel)

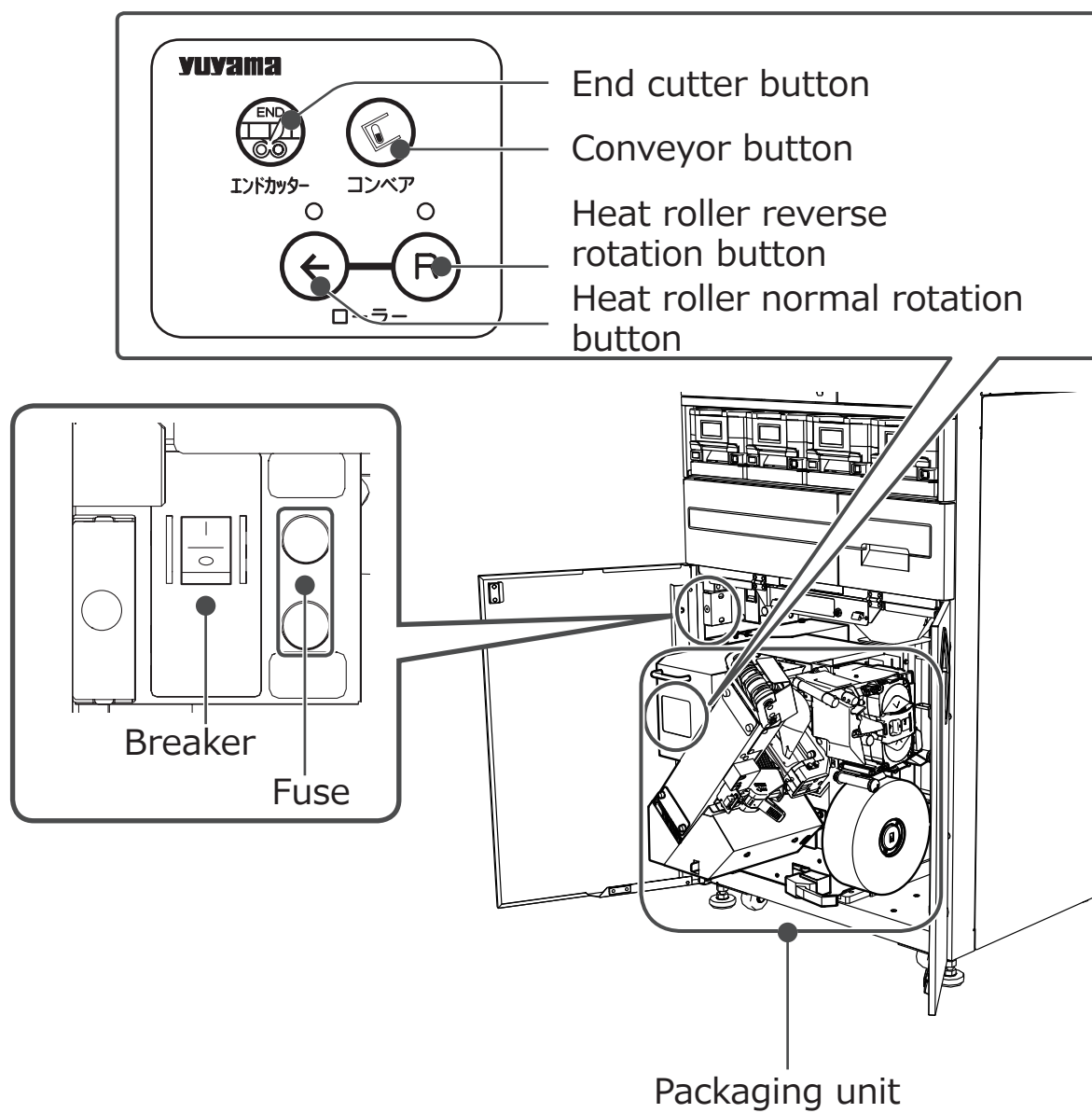


Exterior of Slide Unit (Option)



➡ Name of Components (Continued)

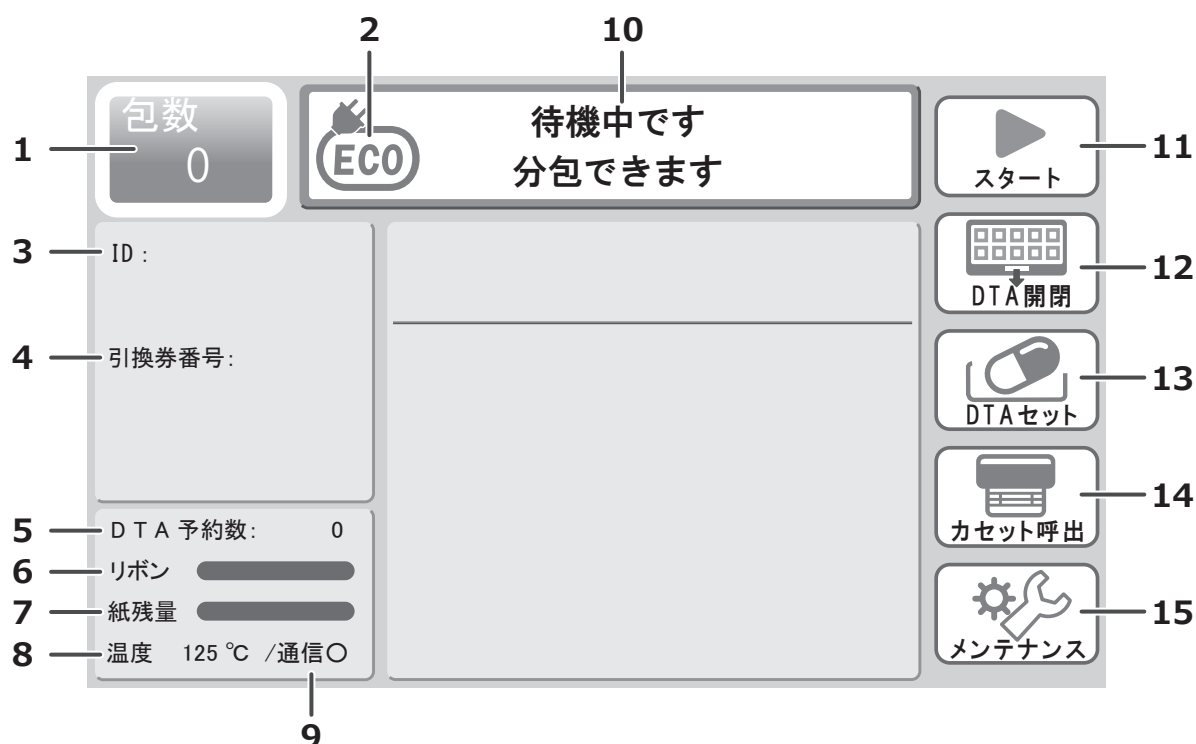
Inside of Main Body





Touch Panel Screens

■ Standby Mode Screen



■ Dispensing Mode Screen (DTA)

