

# GAS TUMBLE DRYER OPERATING INSTRUCTIONS

# MODEL: RDT-600 RDT-400



## **Caution on Use**

## $\triangle$ Warning

#### **Fire Prevention**

- Don't put or use volatile and flammable goods like spray, benzene and gasoline close to the dryer during operation.
- Don't dry clothes which are stuck with oil, petrol, dry-cleaning liquid and perm liquid with the dryer.
  ※Oil oxidation heat may cause spontaneous ignition and inflammation of clothes.
- Confirm flammable things like a lighter and matches are not inside pockets . This may cause fire.
- •Don't dry clothes or materials contain flammable substances like polyfoam, polyurethane etc. User should pay attention to the clothes label.

#### **Care for Ventilation**

• A lot of fresh air is required for complete combustion of gas. Don't use the dryer in a closed room.

#### **Dismantlement Prohibition**

• Don't disassemble, maintain and convert the dryer by unauthorised personnel.

## \land Caution

#### **Caution for Burn**

- •Don't take clothes out until the operation finishes completely. It may cause burn injury due to high temperature around the drum during the operation.
- In case unusual stop occurs during drying, open the door and let the temperature inside the drum cools down before taking the clothes out from the dryer. If the clothes are taken out immediately, burn injury may be caused.

## $\triangle$ Caution

#### Usage

- Don't spray water on and wash the dryer body and drum. Fire may occur due to electrical shock, electric leakage and short circuit.
- Don't cover the dryer with blankets and clothes. Fires and unexpected accidents may occur.
- Don't use the dryer other than the purpose of drying clothes. It may cause fires and unexpected accidents.
- Remove metallic powders and things from clothes as electrical shock may be resulted.

## **Procedures at Unusual Case**

## \land Danger

- When a gas leak is noticed:
  - 1. Stop use immediately
  - 2. Close the gas valve 3. Open windows
  - and doors



#### • Never do the following during a gas leak:

- Do not ignite fire
- Do not turn on or off any electrical appliance

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- Do not insert/remove power plugs
- Do not use nearby telephones and mobile telephones
- Do not use fire to find source of gas leak
- Do not press nearby door bells located on the same floor
- Do not reopen the gas valve until gas is no longer leaking

Gas may ignite from fire/sparks, causing a fire as a result.

## \land Warning

• In case of unusual combustion, bad smell and unusual sound or earthquakes and fires etc. during the operation, stay calm and turn the power switch off. If the dryer is continuously operating under the same condition, explosion and fire may occur.



Turn off the Power switch.

## **Caution on Installation**

## \land Warning

• Don't install in bathroom, highly humid place or place exposed to a rainstorm. It might cause an electric shock, electric leakage or a fire.



# Less Caution Don't put dangerous things, flower and pets nearby gas dryer. Flowers and pets may die due to the exhaust gas and steam come out from the humidity duct. Don't install dryer at places which affect other residents. Choose the place which can support the weight of dryer and will not amplify noise and vibration which may damage building structure and create noise. Don't use it at place where a lot of lint dust exist, which may cause damages to dryer.

#### Ventilation

- (i) For safe operation, the room in which the dryer is placed must be well ventilated. This includes an openable window or equivalent<sup>#</sup> which must be opened during use.
- (ii) If no humidity duct (venting hose) is fitting, the room shall be provided with air vents which communicate directly with outside air and are sized in accordance with the following table:

Room Volume (m³)	< 5	5 – 10	> 10
Minimum permanent opening free area (cm <sup>2</sup> )	100	50*	Nil

(iii) If humidity duct is connected, air vent is not necessary.

— Note —

<sup>#</sup> Alternative acceptable forms of opening include adjustable louver, hinged panel or other means of ventilation that open directly to outside air.

<sup>\*</sup> If the room has a door which opens directly to outside, no permanent opening is required.

## $\triangle$ Caution

#### **Humidity Duct Installation**

- For optimal function of the machine, the length of dia. 80mm humidity duct is recommended not to exceed 6m and 1 bend. Reduce 2m when adding one bend.
- Maximum allowable length is 11m and 1 bend (equivalent to 5m and 4 bends) for dia. 80mm humidity duct. Reduce 2m when adding one bend. Under this condition, the machine still functions safely and normally, however, the drying time and the frequency of lint filter cleaning may increase.

## **Caution for Children**

## \land Warning

• Don't let children use the dryer alone or place it at location reachable by children. This may cause burning or electrical shock if misused.



## **Usual Care**

#### **Installation Place**

- Don't install the dryer at unstable place which may cause accident by falling off.
- Don't install the dryer under a shelf or place with falling off objects which may damage the dryer.
- Don't use the dryer at place which need dehumidification since the exhaust flue contains moisture.
- Don't install the dryer on the electrical carpet or hot water mat which will cause accident.
- Install the dryer with enough distance from the flammable objects such as furniture, wall and shelf etc.



## **Usual Care**

#### **General Home Appliances**

• Dryer is for domestic use only. Do not use for commercial application. It may shorten the life time.

#### **Cautions for Drying**

- Neither add extra clothes nor open the door during drying. Clothes may become unevenly dry.
- Don't put heavy things or hang down the door by children. It may cause damages.
- In case of a power failure during operation, restart the dryer after the power is resumed.

#### How to handle clothes

- Too much clothes cause uneven drying and trouble. In case the spin-dry clothes are over-loading into the dryer, divide them into 2 batches and dry separately.
- Wet clothes kept inside the dryer may cause corrosion and trouble due to the moisture.
- Don't dry the glued clothes which may cause blocking at the filter. Use the glued spray after drying.
- Enough spin dry by washing machine is required before using the dryer. If not properly dehydrated, the drying time may take longer, and result in damages to the dryer and leakage of electricity.
- When using chlorine bleach on clothes, they should be fully rinse before drying. If the chlorine bleach remains, it may cause damages.
- Clothes stuck between front door and dryer drum may cause trouble to the drum turning and this is dangerous.

Enough Dehydration

# **FUNCTIONS & FEATURES**



## **Main Features**

## **Quick Drying**

High speed, powerful gas heated drying. Drying time is reduced by 1/2 compared with electric dryer.



#### Soften Finished by Easy Operation

Convenient automatic system. Just press a start button, the dryer stops automatically after drying is completed. Heated by gas makes clothes soften finished.







## **Operation Cycle**

Choose the operation cycle according to type of clothes.



#### 4kg Loading Capacity & Compactness (RDT-400)

Easy installation at narrow space.



#### 6 kg Loading Large Capacity (RDT-600)

Powerful drying for 6kg of clothes (dry clothes weight).



## Indication of the remaining time

Indicate the remaining time in accordance with the clothes volume at 2 minutes after the operation starts. (the remaining time is reduced for every 5 minutes.) In case of the delicate cycle, it does not indicate the remaining time for a while. All the time displayed is only estimated time and there is some difference with the actual finishing time.

The remaining time may not be indicated properly if the filter clean lamp is on.





# PART NAMES

BODY



— 7 —

# PART NAMES

## **OPERATION INDICATOR PANEL**



# **HOW TO USE**

# Separate Clothes for Drying

Separate clothes according to operation cycle or drying style. (for details, please refer to page 11)

Confirm whether the clothes can be dried or not by the dryer. (for details, please refer to page 16)



## **Open the front door and put clothes into the dryer**

Close the front door after placing spin-dried clothes one by one. ( Don't open/close the front door roughly)

If spin-dried clothes are not put in one by one, they may be tangled or rumpled. Ensure clothes are separately placed.

Check if the filter is fixed on the right position before putting clothes into the dryer.

# **3** Close the front door and press the power switch

"GENERAL" + "EXTRA SOFT" lamp is ON.



## **Choose the Operation Cycle for clothes**

Identify the kinds of clothes, and then determine the operation cycle. (for details, please refer to page 11)

In case the operation cycle is not chosen, it is operated with "GENERAL" + "EXTRA SOFT" cycle automatically. The operation cycle can be changed during operation. (Note : The remaining time is also changed.)



# **HOW TO USE**

# **5** Press the "Start/Pause" Switch

The selected cycle lamp is on, together with the "operation/combustion" lamp. The operation/combustion lamp changes from green to red after ignition, which takes 5 to 10 seconds. (The "operation/combustion" lamp may change to the green colour during operation from time to time and this is normal.)



# **D**rying is finished when the buzzer sounds. Take clothes out from the dryer.

Drying is finished when the buzzer sounds 3 times. If the operation cycle of "General", "Thick" or "Delicate" was chosen, the "Finish" lamp will start to flash. It indicate the dryer is entered into "Soft" operation automatically, (if the operation cycle of "General" + "Extra Soft" or "Thick" + "Extra Soft" was chose, then "Finish" lamp is on) the dryer will intermit drum operation (12 second every 4 minutes) and send air so that clothes can be kept softly, for a period of 32 minutes since the dryer has finished. The "Finish" lamp becomes "On" when the "Soft"



operation is completed, it will keep alight until the front door is opened, the "Finish" lamp will then turn off and the dryer will auto power-off after 10 minutes.

Open the front door and the "Soft" operation is automatically completed.

Ensure the "operation/combustion" lamp becomes green colour before taking clothes out from the dryer.

You may notice a build up of static electricity in the clothes when you remove them from the dryer. (for static electric protection, please refer to page 17 "How to use properly")

This dryer is operated automatically after sensing the clothes volume and drying conditions by the microcomputer. (except the timer cycle) Choose the best operation from the thick to the delicate cycle to match the clothes.

#### Select the Operation Cycle

Press the power switch, the "**GENERAL**" + "**EXTRA SOFT**" cycle is chosen every time automatically. When you want to choose another cycle, you can do so by pressing the program switch on the indicator panel.



Press the program switch every time and then the cycle is changed. → GENERAL+EXTRA SOFT-→GENERAL-→THICK+EXTRA SOFT-→THICK-→DELICATE -

• You can choose the timer cycle by pressing the "Timer Cycle" switch. (However, only the "GENERAL" or "DELICATE" cycle can be chosen then.)



# DELICATE

Thin clothes made of synthetics etc (please read page 15 "How to use properly")

At the delicate cycle, clothes can be dried softly with half of the normal heating value.

The remaining time may not be indicated for a while due to the humidity of clothes.





## TIMER

# Automatically stop after the operation time completed regardless of drying conditions.

Press the power switch and then choose the "Timer" cycle by the timer switch. In case of pressing the timer switch, the **"TIMER"** + **"GENERAL"** cycle lamp lights. Re-press the timer cycle switch and the **"TIMER"** + **"DELICATE"** lamp becomes on. Press the timer cycle switch every time to change the cycle.





When you choose the timer cycle, it will show "20" minutes on the digital indicator. You can set the time by the timer set switch  $\lceil \bigotimes \rfloor$   $\lceil \bigotimes \rfloor$ . (remark : previous setting time is shown as default at next operation.)



The timer can be set from 5 min. to \*60 min. (note : set 5 – 30 min. at an interval of 5 minutes and 30 - \*60 min. at an interval of 10 minutes.)



\*\* RDT-600 can be set up to 80 min.

The **"GENERAL"** timer cycle is operated with the normal heating value. The **"DELICATE"** timer cycle is operated with half the normal heating value. Press the program switch if you want to cancel the timer cycle.

#### To warm underwear & pajama,

GENERAL + 10 minutes

#### Set "Extra Soft"

#### What is "EXTRA SOFT" ?

If choose the **"EXTRA SOFT"** cycle together with **"GENERAL"** or **"THICK"** cycle, the dryer will intermit drum operation (12 seconds every 4 minutes) and send air so that clothes can be kept softly, for a period of 120 minutes since the drying has finished.

Open the front door and the **"EXTRA SOFT"** cycle is automatically completed.

#### Why choose "EXTRA SOFT" ?

When forecast the clothes cannot remove from the dryer promptly after the drying operation was completed or require to wait a quite long time to do so, chose the **"EXTRA SOFT"** cycle can reduce the wrinkle to be formed at the clothes and it can also be kept softly, so it is recommended to use this cycle to extend the "Soft" operation time.

There is no gas consumption during the automatic **"SOFT"** and **"EXTRA SOFT"** operation.





#### Set "General"

#### **RDT-600**

TYPES OF CLOTHES	WEIGHT/PC	DRYING VOLUME	DRYING TIME
Shirt (Mix Spinning)	About 200g	About 25 pcs	About 55 min.
Working Wear(Mix Spinning)	About 800g	About 7 sets	About 60 min.
Napkin (Cotton)	About 60g	About 65 pcs	About 60 min.
Pajamas (Mix Spinning)	About 500g	About 12 sets	About 60 min.
Towel (Cotton)	About 80g	About 50 pcs	About 60 min.

#### **RDT-400**

TYPES OF CLOTHES	WEIGHT/PC	DRYING VOLUME	DRYING TIME
Shirt (Mix Spinning)	About 200g	About 17 pcs	About 65 min.
Working Wear(Mix Spinning)	About 800g	About 5 sets	About 60 min.
Napkin (Cotton)	About 60g	About 50 pcs	About 60 min.
Pajamas (Mix Spinning)	About 500g	About 8 sets	About 70 min.
Towel (Cotton)	About 80g	About 35 pcs	About 60 min.

The above table shows the approximate values based on a room temperature of 20°C and clothes spin-dried for about 5 minutes by auto-washing machine.

For drying towels, the volume after drying is about 1.5 times of normal clothes. Please take into consideration.

Even for usual clothes, if too many clothes are put into the dryer, the drying time is much longer and the drying becomes uneven.

#### Notice

#### Drying time will be longer under the following conditions :

- Insufficient dehydration.
- Lint filter being blocked.
- Low surrounding temperature. Insufficient ventilation inside the room.

# How to use properly

Use the "Delicate Cycle       Heddec uneven drying and rumple         • Dut the fayed clothes, nylon stockings.       • Smooth down clothes and put into the dryer one by one.         • Don't use the "General" cycle for nylon stockings.       • Smooth down clothes and put into the dryer one by one.         • Don't use the "General" cycle for nylon stockings.       • Smooth down clothes and put into the dryer one by one.         • Don't use the "General" cycle for nylon stockings.       • In case of small volume, some towels can be put together for drying.         • In case of small volume, some towels can be put together for drying volume.       • In case of small volume, some towels can be put together for drying.         • Use the fabric softener at washing.       • In case of mixing thick and thin clothes, choose the "Thick" cycle.         • Use the fabric softener at washing.       • Dry clothes after zipping up and turning them inside out.         • Use the fabric softener at washing.       • Dry clothes after zipping up and turning them inside out.         • Use the fabric softener at washing.       • Dry clothes after zipping up and turning them inside out.         • Clothes with lots of lint       • Dry new towels separately. Synthetics clothes easily catch lint.         • Choose the "Thick" cycle and reduce drying volume.       • Dry new towels separately. Synthetics clothes easily catch lint.	<ul> <li>Put the frayed clothes, nylon stockings and etc into the delicate bag as optional.</li> <li>Don't use the "General" cycle for nylon stockings.</li> <li>Smooth down clothes and put into the dryer one by one.</li> <li>Volume of clothes is about 70 – 80% of standard drying volume, some towels can be put together for drying.</li> <li>In case of mail volume, some towels can be put together for drying.</li> <li>In case of mixing thick and thin clothes, choose the "Thick" cycle.</li> <li>Clothes with a zipper, a hook and etc.</li> <li>Ory clothes after zipping up and turning them inside out.</li> <li>Thick clothes like jeans and trainer etc.</li> <li>Choose the "Thick" cycle and reduce drying volume.</li> </ul>		
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# How to use properly

# Clothes which are unsuitable for drying (Don't put such materials into the dryer)

Damage of clothes itself



# How to use properly



# **MEASURES WHEN THE SAFETY DEVICE IS OPERATED**

This appliance displays information when the safety device is operated. If the dryer stops during operation, check whether the safety device is operated or not. When the "CLEAN FILTER" lamp lights together with the failure display, it means the filter is blocked. The dryer is not unusual when the "CLEAN FILTER" lamp lights during operation. Clean the filter after operation. When the safety device is on, the indicator flashes and the buzzer sounds 5 times. (Indication flash is stopped when power is switched off)

Indication for the Safety Device Operating (Lamp flashing)	Cause	Measures	
85	Lint Filter or Back Filter is blocked by lint.	Clean Filter and restart after 10 mins	
	Gas valve is not opened.		
i i	Gas hose is not connected properly.	After Inspection, re-operate.	
	Gas valve is not opened fully.	After Inspection, re-operate.	
¦,_'	Lack of oxygen inside room.	Need to ventilate fully and then re-operate.	
	Lint Filter or Back Filter is blocked by lint.	Clean Filter and restart after 10 mins.	
32	Lint Filter or Back Filter is blocked by lint. Discharged Duct is blocked. Too much clothes. Trouble in the electric system.	Clean Filter and restart after 10 mins. In case "32" is re-indicated, need to repair. Call for repair.	
90	Lack of oxygen for combustion. Lint Filter or Back Filter is blocked by lint.	Clean Filter and restart after 10 mins. In case "90" is re-indicated, need to repair. Call for repair.	
Numbers other than the above numbers.		Need to repair. Call for repair.	
All lamps light OFF.	Trouble in the electric system.	Need to repair. Call for repair.	
	Trouble for over-heat.		

## **Check the following items again before calling to repair**

#### **No operation**

Whether the gas cock is fully opened or not ?Whether fuse or breaker is cut or not ?Whether power failure happens or not ?Whether the "Power" switch & "Start/Pause" switch are pressed or not ?Whether the front door is closed completely ?

#### The drying time is longer and do not dry well

Whether the "Clean Filter" lamp lights or not ?
Whether clothes are too much or not ?
Whether clothes are spin-dried enough ?
Whether the front door has been opened during operation ?
Whether clothes are added during operation ?
Whether the discharged duct is blocked or not ?
Whether thick items are not operated in "Thick" cycle ?

# **Any troubles ?**

# The followings are not trouble cases

The dryer is still operating even after the finishing buzzer sounds.	"EXTRA SOFT" cycle is operating. It operates for 120 minutes. Open the front door and it will automatically stop.
It takes some time to turn on the combustion lamp.	This may happen if the dryer has not been used for a long time. Just keep on operating for a while until the combustion is on (red).
There are white smokes from the discharged duct on cold days.	You may see white smokes from the discharged duct on cold weather, which is not failure. Steam becomes white smoke due to the temperature difference and a lot of humidity discharged for a short time.
There is some " PEE" sound after ignition.	It is temporarily caused by the excessive air in the burner. The dryer will become normal after some time.
There is some "B0" sound after ignition.	That is only the ignition sound. Don't worry.
There is some "ZHI, ZHI" sound after the operation stops.	The sound is caused by shrinking of the burner which was expanded by heat.
The sparking sound of ignition appears after the fan starts to turn.	The ignition is intentionally delayed for 5 seconds in order to prevent explosive ignition.
The indication time of the remaining time is not changed for a while.	The display may be delayed for more than 5 minutes in order to adjust between the predictive time and the actual time.
warning ()	the dryer by yourself.

It handle improperly, it may cause fire and electrical shock.

# **Regular Maintenance**

Regular inspection is necessary for safe usage

### Warning :



Don't disassemble, convert and repair the dryer (other than the filter) by unauthorized person. Inappropriate assembling & disassembling may cause accidents.

## **Usual care after using the dryer**

# **CLEANING OF LINT FILTER**

The filter lamp flashes when the filter is blocked by the lint. Blocked filter results in longer drying time, so please clean lint filter after operation.

In case the "clean filter" lamp lights during the drying operation, the buzzer will sound after the operation stops.(Max. 5 mins. but when the front door is opened or the power switch is off, the buzzer will stop.)

Put your fingers into the 4 holes of the lint filter. Remove the filter by pulling it towards yourself.



3

Take away any lint stuck in the lint filter. (If the lint dust cannot be removed from the filter, wash the lint filter with neutral cleanser and water.) Remember to dry the lint filter thoroughly after washing.



Remove the lint filter from the lint pocket.







# **Regular Maintenance**

# **Monthly Maintenance**

## **CLEANING OF BACK FILTER**

You can see the back filter after the lint filter is taken away. Normally, you can clean the back filter without removing it.

Remove the lint by a soft brush and avoid scratching

In case you cannot clear the lint easily, remove the back filter to clean.

(Unscrew two resinous screws by hand. In case resinous screws are tight, please use (+) screwdriver.)







# **Regular Maintenance**

## **CLEANING OF AIR INLET FILTER**

Pull out the air inlet filter which is located at the bottom of the dryer.

2

Remove the lint dust by using a soft brush.

After cleaning the lint, put the air inlet filter into the rail at the bottom of the dryer properly and push it back to its original location.

**Maintenance of the Dryer Body** 

- Clean dryer body with moistened cloth. In case of stubborn stain, wipe with kitchen neutral cleanser.
- Ensure dryer body is dry before using.





# **Specifications**

Model	RDT-600
Dimensions (mm)	H 661 x W 650 x D 530
Gas Consumption	4.65 – 1.86kw (3,950 – 1,580 kcal/h)
Weight (Body only)	32.4 Kg
Standard Drying Capacity	6 Kg per time
Standard Drying Time	60 minutes
Gas Connection	$\phi$ 9.5 Hose end
Power Supply	AC220~240V (50/60Hz)
Electric Consumption	50 Hz (220 V) : 260 W 50 Hz (230 V, 240 V) : 280 W
Power Cord Length	1.5 meters
Safety Devices	Flame failure device, Temperature thermistor, Oxygen depletion sensor, Auto recovery motor protector, Overheat sensor, Door switch, Drum Belt-cut and Filter clogging buzzer.

Model	RDT-400
Dimensions (mm)	H 586 x W 550 x D 490
Gas Consumption	3.66 – 1.40kw (3,100 – 1,190 kcal/h)
Weight (Body only)	27.0 Kg
Standard Drying Capacity	4 Kg per time
Standard Drying Time	60 minutes
Gas Connection	$\phi$ 9.5 Hose end
Power Supply	AC220~240V (50/60Hz)
Electric Consumption	50 Hz (220 V, 240 V) : 200 W 50 Hz (230 V) : 220 W
Power Cord Length	1.5 meters
Safety Devices	Flame failure device, Temperature thermistor, Oxygen depletion sensor, Auto recovery motor protector, Overheat sensor, Door switch, Drum Belt-cut and Filter clogging buzzer.

• Standard drying capacity and drying time is based on actual clothes (cotton: synthetics = 50:50)

# **Specifications**

RDT-600





## RDT-400







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