HAIER

FRONT LOADING WASHING MACHINE

SERVICE MANUAL

PART # WD-8888-64

HAIER AMERICA TRADING, LLC
www.haieramerica.com

TABLE OF CONTENTS

FEATURES

- A CAPACITY of 11lbs
- Has a 11lbs washing load
- WASH, SPIN AND DRY

The washing machine can wash, spin and dry all in one operation.

SPECIFICATIONS

With front loading washing machines, push the button to open the door		**WD9900**
Last update	*2002-5-13*	
1. Product identification		
Description of appliance		Washing machine
Type of appliance (FS = standing, BI = built-in)		FS
Supplier own brand		Haier
Supplier bar code	EAN	TBC
Mares computer code		
Commercial Brand / Model		
Commercial bar code	EAN	
2. Key-Features		
Energy efficiency class		B
Washing performance class		C
Spin efficiency class		C
Programs	n°	18
Capacity	Lbs	11
Spin speed *(max. / optional)*	rpm	800
Noise level	dB(A)	70
Energy consumption per wash circle *	KWh	107
Water consumption*	gal	20.6
Residual dampness *(spin result)*	%	62%
Spin speed selector switch *(steps)*	Rpm	-
Spin speed variator *(steeples)*	Rpm	●
Adjustable thermostat (*Water temp. adjust* from - to*)*	°C	
Drum capacity dry laundry / water	Lbs / l	99
Auto water level adjust *(depending on volume of filled in laundry)*	*AWL*	-
Washing time (max.)	Min	160
Washing temperatures *(program-controlled)*	°F	
Certification's (**CE**/ ISO 9001 / ISO 9002)		
Approvals (VDE/GS / TÜV/GS / IMQ)		
* EN 60456 *(60°C cycle, full load without pre-wash)* *= *COLD*		
3. Basics data		
☐ Unit dimensions (H x W x D)	inch	33.4 X 23.4 X 21.6
Net weight	Lbs	158.7
Voltage/frequency	V/Hz	220-230V~50Hz

	Input power / main fuse (intensity)	W / A	1300/15
	Removable work top		● / ●
	Control **M**= electromechanical, **E**= electronic, **F**= fuzzy		M
	Drum **S** = stainless steel / **Z** = zinc coated		S
	Tub **P** = Polyprop. / **S** = stainless steel		S
	Door:		
	Aesthetic (**R**= round, **Y**= big eye, **Q**= square)		R
	Diameter	m	11.8
	Outer door frame **S**= stainless steel **M**= metal / **P**= plastic		P
	Inner door **G**= glass / **P**= plastic		G
	Detergent compartments	n°	4
	Removable compartment for liquid detergent		-
	Delay timer *(from - to)*	h	-
	Self cleaning suds pump		●
	Water inlet hose cold water / hot water		●
	Water drain hose / -support		● / ●
	Adjustable feet	n°	4
4.	**Safety systems**		
	Auto door lock	*ADL*	●
	Motor overheating protection	*MOP*	●
	No heating without water	*NHW*	●
	Auto water cool-down *(before drain 90°C boiled water)*	*AWC*	●
	Water return protection	*WRP*	-
	Aqua Stop kit		-
	Child protection		-
5.	**Programs**		
	1) Strong action /cotton cycles	n°	7
	2) Normal action / synthetics	n°	6
	3) Delicate action / wool cycles	n°	5
	Pre-wash / wash		● / ●
	Quick wash / super quick wash		● / ●
	Rinse / soften		● / ●
	Delicate / hand wash		● /-
	Wool / cashmere		● /-
	Soak / spin		● /-
	Drain		●
	Optional function keys (additional program settings)		
	ON/OFF button		●

	Half load		●-
	Eco		
	Spin exclusion		
	Spin reduction	Rpm	-
	High water level		-
	No Soak		-
	Rinse stop		
	Delicate		-
	Cold wash	☐ ☐	-
6.	**Packing dimensions & loading ability**		
	Packing dimensions (H x W x D)	inch	34.6 X 26 X 24
	Gross weight	Lbs	171
	40' Container load	pcs	
	40' HC load capacity	pcs	150
7.	**Built-in dimension**		
	Requested measure of niche *(H x W x D)*	inch	
	Dimensions of door	inch	
8.	**Logistic / Recycling Information**	RS	
	Packing weight	Lbs	13.2
	Packing materials / Recycling symbols		REzY
	Carton (weight)	Lbs	9.92
	Polystyrene (weight)	Lbs	2.2
	Polyethylene foil (weight)	Lbs	1.1
	Other packing materials (weight)	Lbs	0
	Wood (weight)	Lbs	0.00
9.	**Service**	RS	REzY
	_ser instruction (languages)		GBL
	Max. failure rate (12 Months after sales to end customer)	%	

SAFETY PRECAUTIONS

This appliance should be used only for the purpose for which it was designed i.e. as a washing machine for home use, manufactured according to C.E.I. safety regulations. Any other use is therefore dangerous.
The manufacturer assumes no responsibility for damages caused by improper, incorrect and irrational use.

Certain basic rules must be adhered to when using electrical appliances.
The following are especially important:

- Never touch the appliance with wet/damp hands or feet;
- Ensure you are wearing sandals before using the appliance. Never use the appliance while you are barefooted.
- Take special precautions when using it in rooms such as bathrooms / showers.
- Do not pull the power supply cable of the appliance to unplug the cable from the mains.
- Do not leave the appliance outdoors or exposed to weather conditions such as rain, sun rays etc.
- Do not allow children or disabled persons to use the washing machine without supervision.
- If the power supply cord is gets damaged, it must be replaced by the manufacturer or its service agent, or a similarly qualified person in order to avoid injury/hazards.
- To ensure safety, please switch off power from the mains if the washing machine is not being used for a period of time.

The washing machine should be installed by a qualified person and according to the instructions provided by the manufacturer.
The manufacturer declines all responsibility for damage to persons, animals or property caused by incorrect installation.

Warning:

1. If the supply cord gets damaged, it must be replaced with a special cord or assembly available from the manufacturer or service agent.

2. A manual accompanies this appliance along with a supply cord and a plug. The instructions state that the appliance must be positioned so that the plug is accessible.

Note: These requirements do not apply if the appliance incorporates other means of disconnection from the supply.

3. For washing machines with ventilation openings in the base, the ground covering/carpet must not obstruct the openings.

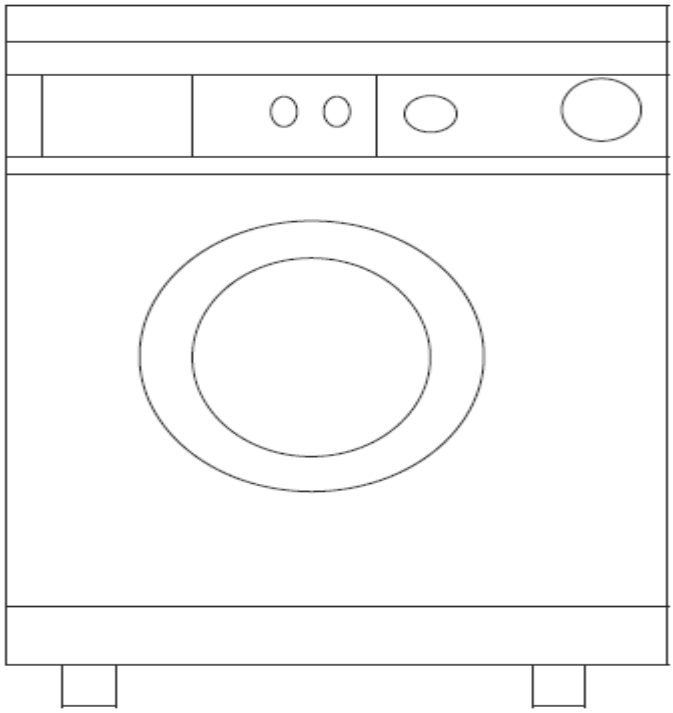
4. The instructions also state that the appliance is to be connected to the water mains using new hose-sets; old hose-sets should not be reused.
Note: This instructions is not required if the hoses are permanently attached to the appliance.

5. When connecting the washing machine to the water supply and drainage, make sure the plug is within reach.

6. Keep the vent outlet at the bottom of the washing machine from being blocked.

7.To prevent dangers, damaged electrical cable must be replaced by the manufacturer or authorized servicemen.

DIMENSIONS



Height: 33.4 inch / Width: 23.4 inch / Depth: 21.6 inch

INSTALLATION & ACCESSORIES/ PARTS

Unpacking leveling and positioning

Remove the package and check that the washer's dryer is undamaged.
If you have any doubts, call on a qualified technician. Keep all packing parts (plastic bag, foam, rubber, screws etc.) out of the reach of children since they could pose a threat.

Important:

The inside of the washer's dryers consists of a floating unit, which is fixed with screws at the back of the cabinet. During transportation, before starting the machine remember to release the floating unit by removing the above screws and to prevent water from entering the machine, remember to close the holes left open by the screws with the plastic caps provided in the packet containing the owner 's manual. It is important for the machine to be perfectly level (the angle of inclination on the work surface must not be more than 2 degrees). For this reason the machine is fitted with adjustable feet used for leveling the machine before use. In case of a floor with carpeting, remember to check that the ventilation in the support area is not blocked.

Electrical Connection

Connect the plug to a socket provided with efficient earthing. (Warning: This appliance must be earthed as a safety measure according to the law).
Make sure that the voltage and frequency available correspond with the values stated on the data plate located at the back of the machine and that the electric system is dimensioned to withstand the maximum current shown on the data plate. If the socket connected to the machine does not correspond with the plug, replace the plug with a suitable one and avoid using adaptors or shunts since they could cause overheating and burning out.

Connection of tap and loading hose

Connect the inlet hose to a cold-water tap and check that it is tightly screwed to the tap. If the water piping is new or has not been used for a long time, before making the connection, let the water run until it is clear and free from impurities.
This step is necessary to ensure that the incoming water does not clog and possibly damage the machine.

Checking the connections

Turn the tap to maximum to check if any leakage. If yes, reassemble it then.

Note: 1.The connecting and the inlet hose can be re-assembled many times.
2. If the pipe is new or its long been absent from use, let go the dirty, rusty water first till it turns clean.

Connecting the Drain Hose

Connect the drain hose to a drain duct (with internal diameter of at least 1.6 inch) or place it for drainage into a sink or a tub, ensuring that there are no kinks or bends. The free end must be at a height of between 31.4 and 39.3 inch. It need be to fix the end of the hose at a height of no less than 31.5in from the floor, the hose must be fixed in the appropriate hook on the upper part of the back panel or use the supplied support to fix the drain hose.

Connecting to the Water supply

Insert stainless steel screen washers into end of each supply hose and attach that end of supply hose to your 3/4" water tap spigot. **Note:** Home Centers also have ”Y” connectors and “Couplings” which enable you to connect the machine to your sinks faucet.
Note: The water outlet should not be submerged in water.

2. Filling hose

1). Connect one end of the filling hose to the faucet and the other to the water electromagnetic valve of the washer.
2). If the pipe of tap water is new or has not been used for a long time, turn on the faucet until the water is clean.
3). Do not disconnect the filling hose frequently after it is joined with the faucet.
Open the faucet before operation to check if the faucet joint leaks to prevent accident.

Unpacking and installation

3. Earth lead

1). The washer should be properly earthed during operation.
2). If the socket has earth wire, no auxiliary earth wire is needed.
3). If the socket has no earth wire, connect the auxiliary earth wire to the auxiliary earth terminal at upper left on the back of the washer and then earth the wire correctly.
Note: It is strictly prohibited to connect the earth wire to the tap water pipes or heating pipes.

Cleaning and maintenance

Cleaning

Please clean the inner tub regularly to keep it clean. The steps are as follows:

1). Shut off the source of power supply before cleaning.
2). To clean the detergent dispenser, draw it out and clean it with water.
3). To wash the body and rubber components, use a wet cloth with a little soapy water.

Attention: Never use gasoline or likewise other solvents for cleaning.
When not in use, unplug it and turn off the faucet. Keep the door open to prevent odors. It's recommended that the door be opened slightly when the washer is not being used.

Transportation

When transporting the machine, assemble the fastening bolts to protect the inner components from being vibrated/shaken.

Parts and Function

A. Wash programmed dial

C. Tumble drying dial

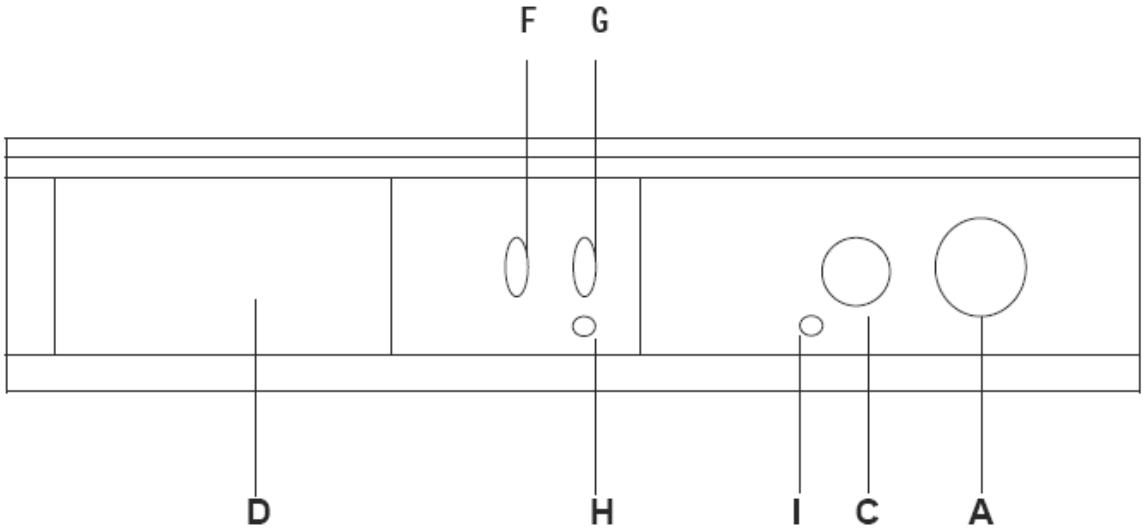
D. Detergent compartment

F. Extra economy button

G. ON/OFF push-button

H. ON/OFF LED

I. Door opening light



FUNCTION SCHEDULE

A
By turning this dial (clockwise only) you can select from eighteen wash programs to the one most suited for your washing.

C
This permits the selection of your own desired drying times and temperatures.
Set the correct drying times in the sectors relevant to the fabrics you are drying (blue sector for heavy fabrics, pink sector for delicate fabrics).

D
The detergent dispenser is divided into 4 compartments marked **1, 2, A, C:**
1 - Pre-wash detergent
2 - Wash detergent
A - Softeners, conditioners, perfumes
C - Bleach

F
This is a very useful button, which will save you a lot of money. It reduces water consumption when rinsing if the machine does not have a full load.

G
ON/OFF button. Supplies electrical power to the washer's dryer.

H
This light indicates whether the electricity is on or off. The light comes on when button G is pressed and off when button G is not pressed.

I
This warning light indicates that the door is locked against accidental opening during the wash programs. When the light is ON the door is locked, and when OFF the door is likely to be opened.
To avoid damage to the door, do not open until the light is OFF, which will be 2~3 minutes after the end of the program.

PROGRAM DIAGRAM

Type of fabric and degree of dirt	Position program. Knob	Position program. Knob
Heavily soiled white laundry	1	
Heavily soiled white laundry and fast colors	1	
White and fast colors	2	
White and fast colors	3	
Mixed cotton + synthetic fabrics with fast colors	3	
Delicate colors	4	
Rinses	5	-
Softeners	6	-
Spin cycle	7	-
Drying cycle for natural fibers	-	-
Heavily soiled synthetic fabrics with fast colors	8	
Normally soiled synthetic fabrics with fast colors	9	
Synthetic fabrics with delicate colors	10	
Rinses	11	
Softeners	12	
Spin cycle	13	
Drying cycle for natural fibers	-	
Woolens	14	
Rinses	15	
Softeners	16	-
Spin cycle	17	-
Drain no spin	18	-

Detergent for pre-wash	Detergent for wash	softener	Bleach	Description of wash cycle
Yes	Yes	Yes	Yes	Prewash at 104 °F -wash cycle 194 °F, -rinses and extended final spin
Yes	Yes	Yes	Yes	Prewash at 104 °F -wash cycle 140 °F, -rinses and extended final spin
	Yes	Yes		Wash cycle at 140 °F rinses and extended final spin
	Yes	Yes		Wash cycle at 140 °F rinses and extended final spin
	Yes	Yes		Wash cycle at 122 °F rinses and extended final spin
	Yes	Yes		Wash cycle at 104 °F rinses and extended final spin
		Yes	Yes	Rinses with automatic introduction of softener, and extended final spin
		Yes		Rinses with automatic introduction of softener, and extended final spin
				Draining and extended final spin
	Yes	Yes		Wash cycle at 140 °F -anti-crease or delicate spin
	Yes	Yes		Wash cycle at 122 °F -anti-crease or delicate spin
	Yes	Yes		Wash cycle at 104 °F -rinse cycles-anti-crease or delicate spin
		Yes		Rinse cycle with automatic introduction of softener anti-crease or delicate spin
		Yes		Rinse cycle with automatic introduction of softener anti-crease or delicate spin
				Draining and delicate spin
	Yes	Yes		Wash cycle at 104 °F -anti-crease or delicate spin
		Yes		Rinse cycles with automatic introduction of softener anti-crease or delicate spin
		Yes		Rinse cycles with automatic introduction of softener anti-crease or delicate spin
				Delicate spin
				Draining without spin

Maintenance service and Troubleshooting

I. The appliance doesn't work/operate.

Possible causes

1. The socket is not the required one or the connection is loose.
2. The door is not properly closed or the switch of micro delay is in poor contact.
3. The plug wire of the motor has a poor/no contact or the motor is broken.
4. Malfunction of electronic module

Troubleshooting

1. Check the socket and plug to make sure that they are properly connected.
2. Check whether the micro delay switch is in good contact in on-position. If yes, insert the terminal firmly to provide a good connection.
3. The electronic module controls the rotary speed and direction of the motor. In case of the failure, check the wiring or replace the electronic module.

II. Filling failure

Possible causes

1. The source of the water supply is not opened or the water pressure is too low.
2. The door is not properly closed or the micro delay switch has poor/no contact.
3. The water electromagnetic valve is broken.
4. The plug wire of drainage pump has poor/no contact.
5. The pressure switch is broken.

Troubleshooting

I. Repeat the following steps.

1). Open the source of water supply.
2). Check whether the filling hose is twisted or blocked.
3). Check whether the water electromagnetic valve is blocked.
4). Check whether program is properly selected.
5). Check whether the water supply pressure is too low.

II. Check if the door catch and the door lock are in good contact. If not, make necessary adjustment. Check whether the micro delay switch is in good contact in on-position.

III. Check whether the electromagnetic is good in on-position. Fasten it if necessary.

IV. Blow on the pressure switch and listen to hear a "click, click". Else, replace the pressure switch with a new one.

III. No drainage

Possible causes

1. Improper installation
2. The drainage pump is broken.

Troubleshooting

I. Repeat the following steps.

1). Check whether the drainage pipe is twisted or blocked. The appropriate height of the water drainage outlet should be from 31.4 inch to 39.3 inch.
2). Check whether the program is properly selected.
3). Connect the power cable to the drainage pump to check whether the operation is normal. If not, make necessary replacement.

IV. Unusual noise

Possible causes

1. The packing screws should be disassembled.
2. The washer is placed too closed to a wall.
3. The washer is loaded over the standard capacity (11 lbs).
4. There is a foreign object other than fabrics in the washer.
5. The washer isn't on a stand level.
6. Bolts or screws are loose.
7. The belt is loose.
8. Something is wrong with the triangle assembly.

Troubleshooting

1. Disassemble the packing screws.
2. Move the washer away from the wall.
3. Do not load the appliance to exceed the standard capacity.
4. Remove any foreign objects.
5. Adjust the washer until it is leveled.
6. Tighten the bolts and screws.
    1. Fastening bolts of vibration damper
    2. Fastening bolts of balances
    3. Screws of water heating pipe

7. Increase the tension of belt.
8. Replace the triangle assembly.

V. The drum doesn't rotate; the spin speed is too high or too low.

Possible causes

1.The belt tension is too low or the fastening bolts are loose.
2.The plug wire of motor is loose or the motor is broken.
3.The capacitor is broken.
4.The electronic module is broken or is not properly plugged.

Troubleshooting

1.Adjust the tension of belt and tighten the screws.
2.Check whether the plug wire of motor is loose or whether the motor works normally, if not make the necessary replacements.
3.Check whether the capacitor is good with a universal meter. If not, make necessary replacement.
4.Replace the electronic module with a new one.

VI .The water level is too high.

Possible causes

1. Gas leakage at the pressure system of the water supply.
2. The pressure switch is broken.

Troubleshooting

1. Check whether the pipeline of the pressure system is blocked or there is a gas leakage. The pressure system includes:
(1) Gas-collecting valve
(2) Rubber pipe
(3) Pipe clip

2. Blow on the pressure switch and a "click, click" sound can be heard. Otherwise, replace the pressure switch with a new one.

VII. No heating or automatic heating

Possible causes

1. Thermostat breakdown
2. Effect of ambient temperature
3. The water-heating pipe is broken.

Troubleshooting
1. Check whether the knob of temperature controller clicks at room temperature. If not, make necessary replacement.
Note:
1). The temperature controller breaks down when it is cold and no click can be heard. Warm the room and the temperature controller will get normal.

2). The water is automatically heated when it is cold and the temperature knob is at "0" position. The process stops when the water is about 86°F.

2. Check the water-heating pipe to see whether the resistance wire is normal. If not, make necessary replacement.

VIII. Water leakage

Possible causes

1. Leakage at joints
2.The reinforcement of outer cylinder is poorly welded.
3.There is foreign object on the cushion of sight window.

Troubleshooting
1. Check whether the joints are damaged or loose.
1). Filling pipe
2). Hose connecting electromagnetic valve to dispenser
3). Hose connecting dispenser to outer cylinder
4). Cushion of sight window
5). Hose connecting outer cylinder to pump
6). Drainage pump
7). Gas-collecting valve
8). Dispenser
9). Condenser
10). Hose connecting condenser to hose of outer cylinder

2. For leakage resulting from the welding defect of outer cylinder, replace the outer cylinder.
3. Wipe off the foreign object from the cushion of sight window.

IX. Improper distribution of dispenser

Possible causes

1. The extension spring loses.
2. Misfit of eccentric wheel, follower and liner
3. Fault of gear of dispenser

Troubleshooting

1. Reassemble the extension spring
2. Reassemble the eccentric wheel, follower and the liner
3. Adjust the gear of dispenser

X. The outer case becomes live.

Possible causes

1. Whether the electric circuit is good.
2.The washer is not safely earthed.
3. The damaged rubber sheath of the power cord results in electric leakage.

Troubleshooting

1. Check whether the insulation of power cord is good. If not, make necessary replacement.
2. Earth the washer safely.
3.Check the condition of the rubber sheath of the power cord and wrap the damaged parts with insulation tape.

XI .The door lock indicator does not light.

Possible causes

1. The door lock indicator is broken.
2. The wiring of micro delay switch is loose.
3. The indicator loses.

Troubleshooting

1. Replace the broken indicator.
2. Tighten the stub of micro delay switch.
3. Refasten the indicator.

XII. No function or malfunction of program controller

Possible causes

1. The motor of the program controller fails or the stub is sealing-off.
2. The knob of program controller is stuck.
3. Poor contact of the wiring of the program controller.
4. Poor contact in at the inner contacts of program controller (even after all the plug wires are tightened.)

Troubleshooting

1. Reassemble the motor of program controller and make a spot welding of the stubs (the operation of program controller and motor can be heard after the appliance is turned on.)
2. Adjust the position of knob of the program controller.
3. Tighten the stubs of the program controller one by one.
4. Replace the program controller with a new one.

XIII. Drying failure

Possible causes

1. The power cord is incorrectly plugged in the socket or the power source is in poor contact.
2. The door is not tightly closed.
3. The knob of program controller is set on " ".
4. Drying time has not been set.
5. Malfunction of drying timer.
6. Malfunction of drying device

Troubleshooting

1. Check the plug and socket to make sure that they are properly connected.
2. Close the door tightly.
3. Set the knob of program controller on " ".
4. Set the drying time.
5. Replace the drying timer.
6. Check the drying device.
7. Whether the heating pipe for drying is in on-position.
8. Whether the electric motor for drying works normally.
9. Check if the plug of drying device is loose.

XIV. Drying failure

Possible causes

1. No drainage
2. The drying load is higher than the standard capacity (6.6lbs).
3. The drying time is too short.
4. Malfunction of feed unit of drying system

Troubleshooting

1. Check the drainage system.
2. Reduce the drying load to 6.6lbs or less.
3. Prolong the drying time to 20 minutes or more.
4. Check the feed unit of drying system.
5. Whether the faucet is opened.
6. Whether the water feeding is normal at the condenser.
7. Whether the flow regulator is choked.

XV. Drying takes too long.

Possible causes

1. No drainage
2. The drainage pipe is too long and results in reflux.
3. Malfunction of the flow regulator

Troubleshooting

1. Check the failure of the drainage system.
2. Adjust the height of the drainage outlet.
3. Replace the flow regulator with a new one.