

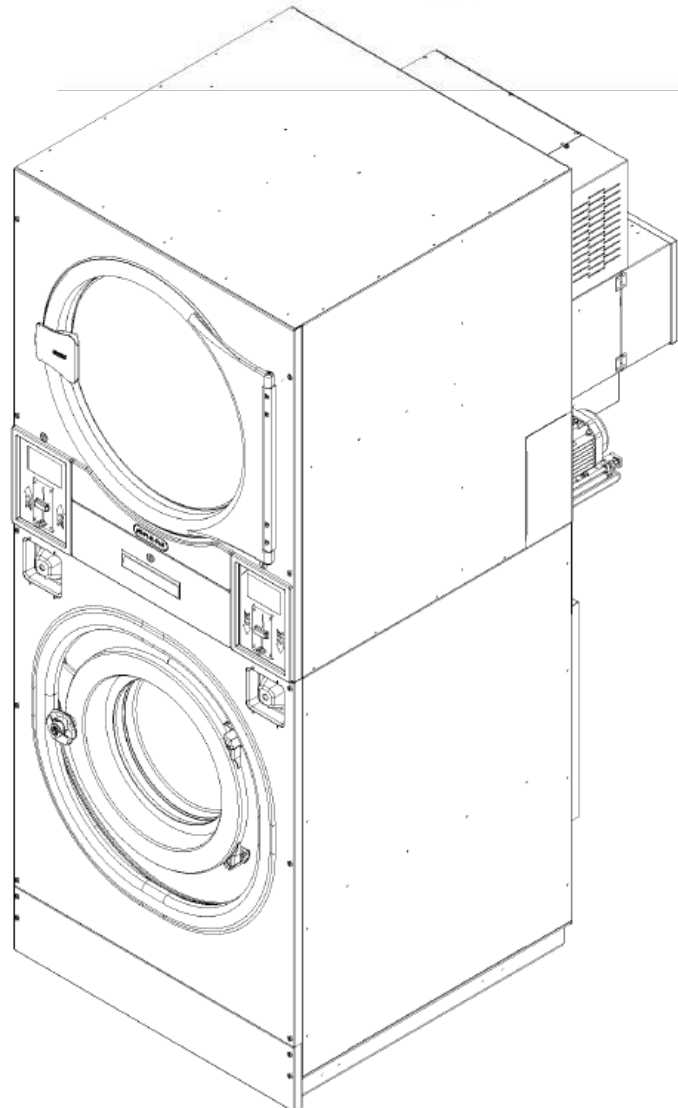


Soft mount stack washer dryer installation \ operation \ maintenance manual

**The instructions applies to the following models:
12FWDD/16FWDD/22FWDD/27FWDD**

Read this manual before use and keep these instructions for future reference. (If this machine changes ownership, this manual must follow the machine.)

Revision date: 2023 / 10 / 28



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1. Security matters



1.1 Marns and signs

Please read this safety section carefully and ignore the potential for machine damage or casualties

The following warning signs will be seen on the fuselage

 WARNING 警告!		
<p>Electrical shock hazard can cause death or serious injury To reduce the risk of electric shock, disconnect all electric power to appliance and accessories before servicing-</p>		<p>电击危险可能导致死亡或严重伤害为减少触电风险，维修前，请断开设备和配件的所有电源。</p>
<p>Moving parts hazard can cause serious injury Disconnect electric power to unit before servicing. Unexpected start of machinery will occur if the unit is equipped with the extended tumble feature</p>		<p>移动部件危险可能导致严重伤害。维修前断开设备的电源如果设备有延长的滚动功能，则会发生意外的机械启动。</p>

Do not touch the area for your safety, repair and move the machine.

 WARNING 警示!		
	<p>To reduce the risk of electric shock, disconnect electric Power before servicing.</p>	<p>为减少触电风险，维修前，请断开设备和配件的所有电源。</p>

NOTICE 警示!	
<p>Use only copper conductors with the following rating when wiring tumbler to electric supply: Gas and steam heat 75°C(167 F)minimum Electric heat 90°C(194F)minimum Connect this tumbler to an individual branch circuit.</p> <p>Wiring Diagram Location: Inside electrical box.</p>	<p>使用符合以下规格的铜制导线连接烘干机和电源： 燃气和蒸汽加热 75℃ (167 F) 最少 电加热 90℃ (194 F) 最少 烘干机配单独的断路器</p> <p>接线图： 在电箱内！</p>
<p>INSPECTED BY:</p> <p>检验：</p>	

The external power cord shall meet the requirements of machine wiring, and the power cord and pipes that do not meet the relevant standards cannot be used.

1. 2 Safety instructions and precautions

Follow this manual "2 Machine Installation" to install the washing machine. All water pipes, drainage, power supply, grounding connections must comply with local regulations and, if necessary, be completed by authorized personnel. It is recommended that professional technicians should install this machine. Do not install or place the machine in wet and open places.

To prevent fire or explosion, do not place inflammable and explosive products in the area around the machine. Do not place the following substances or fabrics containing the following stains in washing water: Gasoline, kerosene, wax, cooking oil, oils, vegetable oils, oils, dry cleaning solvents, flammable chemicals, diluents or other flammable and explosive substances that release gases that may cause the fabric to burn, explode or spontaneously ignite.

Under certain conditions, hydrogen (hydrogen is an explosive gas) may be produced in unused hot water systems for a long time. If the hot water system is not in use for a long time, please turn on all the hot water taps and release water for a few minutes before using the washing machine. This can drain the accumulated hydrogen. The gas is flammable. Do not smoke or use an open flame during the water discharge period.

To reduce the risk of electric shock or fire, do not use substandard extension cables to connect the washing machine to the power supply.

Do not let children play on or in the machine. Machines used near children must be closely supervised.

Do not allow a young child or persons with impaired physical, sensory or mental abilities to use this device alone without supervised guidance. Please take good care of the young children to avoid them playing with the equipment. This safety rule applies to all equipment.

Do not put your hand into the bucket or climb onto the machine, especially if the laundry bucket / drying bucket rotates. Such behavior have serious safety risks, if not avoided, will lead to serious personal injury or death.

Do not run the machine when the outer panel of the machine is removed or damaged. Do not modify any safety devices or modified controls by yourself. This machine can be used for the specified purposes only.

Do not clean / bake hard items in this machine, otherwise it may cause serious damage to the drum.

Only low bubble, no bubble type industrial detergent can be used. Wear gloves and eye protective equipment when adding detergent and chemicals. Be sure to read and follow the manufacturer's instructions on the laundry and cleaning aid packages.

Pay attention to all warnings or precautions. Always place them in a place out of reach of the children (preferably in a locked cabinet).

Do not use fabric softener or product in this machine except for fabric softener or product which is specifically recommended by the product manufacturer. To avoid corrosion and component failure of the machine, do not use corrosive chemicals in the machine.

Always follow the fabric care instructions provided by the textile manufacturer.

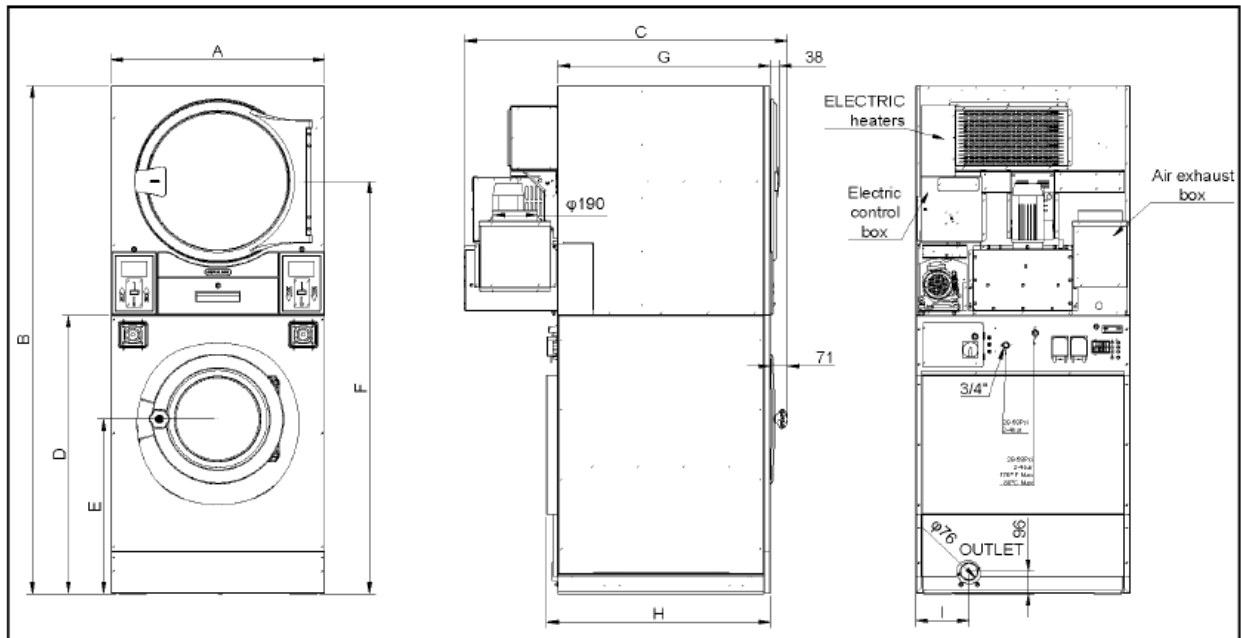
Be sure to close the sealed door before the machine fills with water and runs. Do not allow the machine to operate with the sealed door open by avoiding the loading door switch. Always try to open the loading door after the machine has drained and all moving parts have stopped.

Note that if the machine washes the soap box with hot water. Avoid opening the soap liquid box lid while the machine is running.

Do not attach any object on the nozzle of the soap box. Enough gaps must be retained for this purpose.

Do not touch the inner wall of the drying cylinder, the back plate of the back and the heating box during the machine operation to prevent burns

2. Machine installation



2.1 Model size

type	EC12FWDD	EC 16FWDD	EC 22FWDD	EC 27FWDD
A (mm)	800	800	910	910
B (mm)	2100	2100	2200	2320
C (mm)	1054	1215	1372	1408
D (mm)	1097	1097	1202	1202
E (mm)	683	683	754	754
F (mm)	1671	1671	1778	1829
G (mm)	597	727	905	918
H (mm)	782	862	952	1052
I (mm)	210	210	226	226

2.2 Install the required tools

The user can judge whether the fixed tool is needed according to the "2.3 Installation ground requirements".

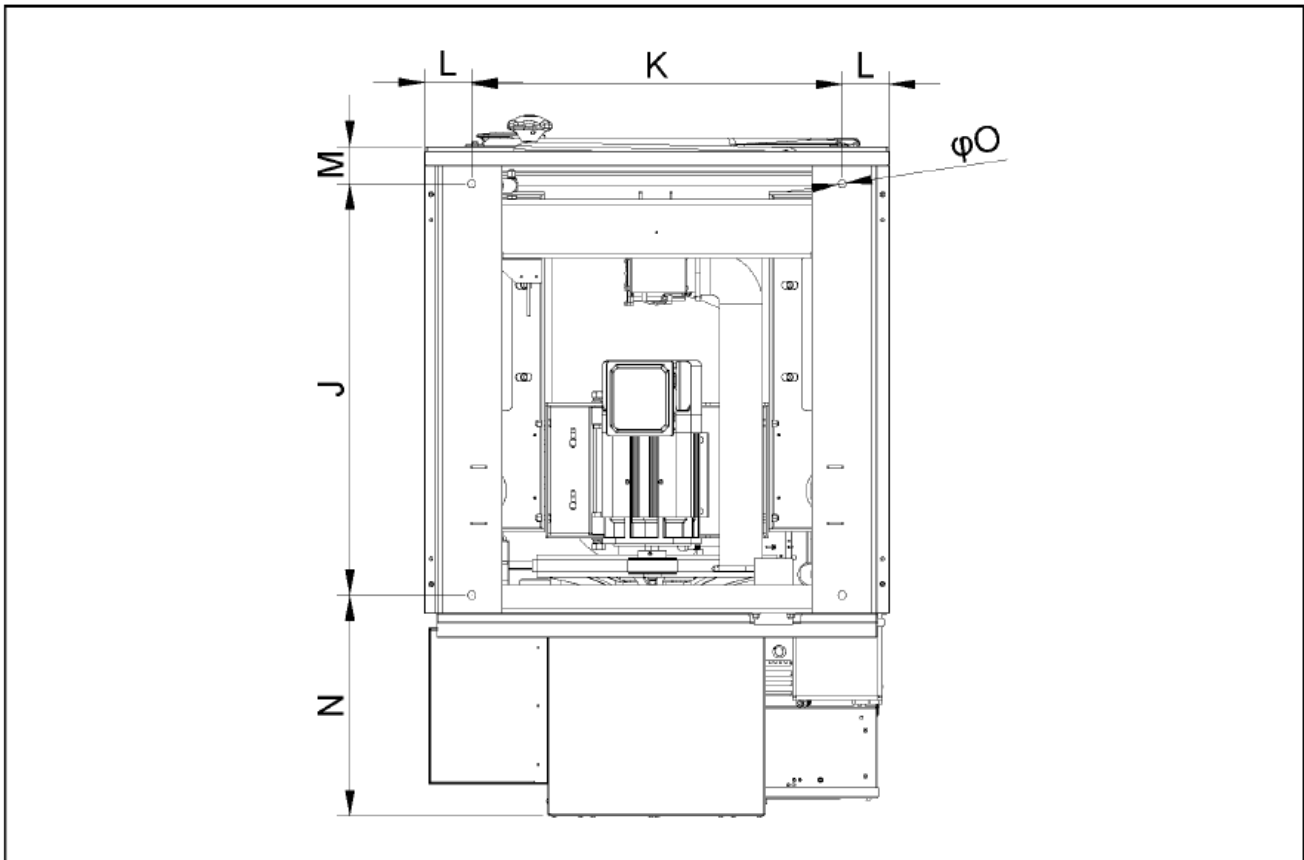
Expansion bolt M 14, length optional according to the ground thickness; wrench numbers 17 and 22.



2.3 Installation ground requirements

The suspended water washing machine absorbs most of the vibration during the operation through the shock absorption device, and the vibration transmitted by the machine to the ground is very slight. If the ground is smooth with less friction, the anchor bolts are required to prevent displacement during machine operation. Rough ground can not be fixed.

The ground type	Whether it needs to be fixed	The ground type	Whether it needs to be fixed
Tile class	need	Ordinary concrete ground floor	non-essential
Polished concrete ground floor	need	Anti-skid floor paint	non-essential
Stone class	need	Mill ground	non-essential
Other smooth ground	need	Other rough ground	non-essential



type	12FWDD	16FWDD	22FWDD	27FWDD
J (mm)	635	715	805	905
K (mm)	655	655	725	725
L (mm)	82.5	82.5	93	93
M (mm)	64	64	73	73
N (mm)	251	301	432	359
O (mm)	16	16	16	16

2.4 Installation and fixing

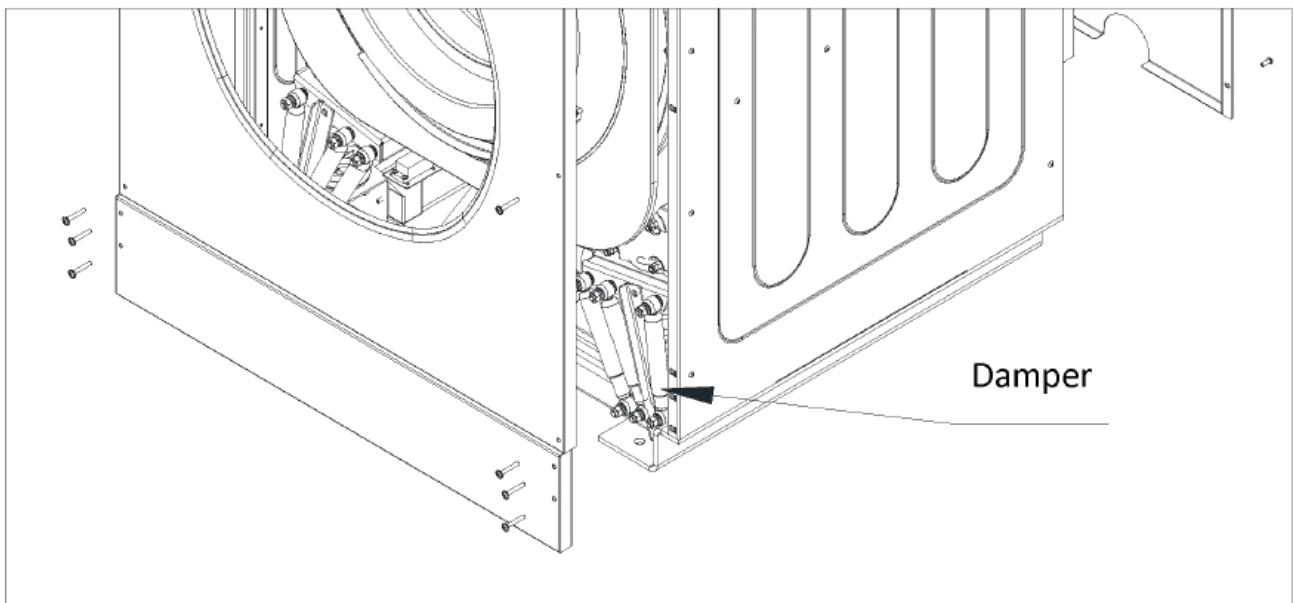
Remove transport insurance with damper attached with machine with No.17 wrench before installation.

Before and after each 2 transportation insurance, a total of 4.

Users who need to fix the anchor should remove the leakage and installation fixing holes in the lower panel of the machine, move the machine to align the four fixed holes with the anchor, and lock the anchor bolts.

The anchor bolts shall be checked regularly to prevent damage caused by bolt loosening.

After the machine debugging is completed, install the front and rear two panels in the original place.



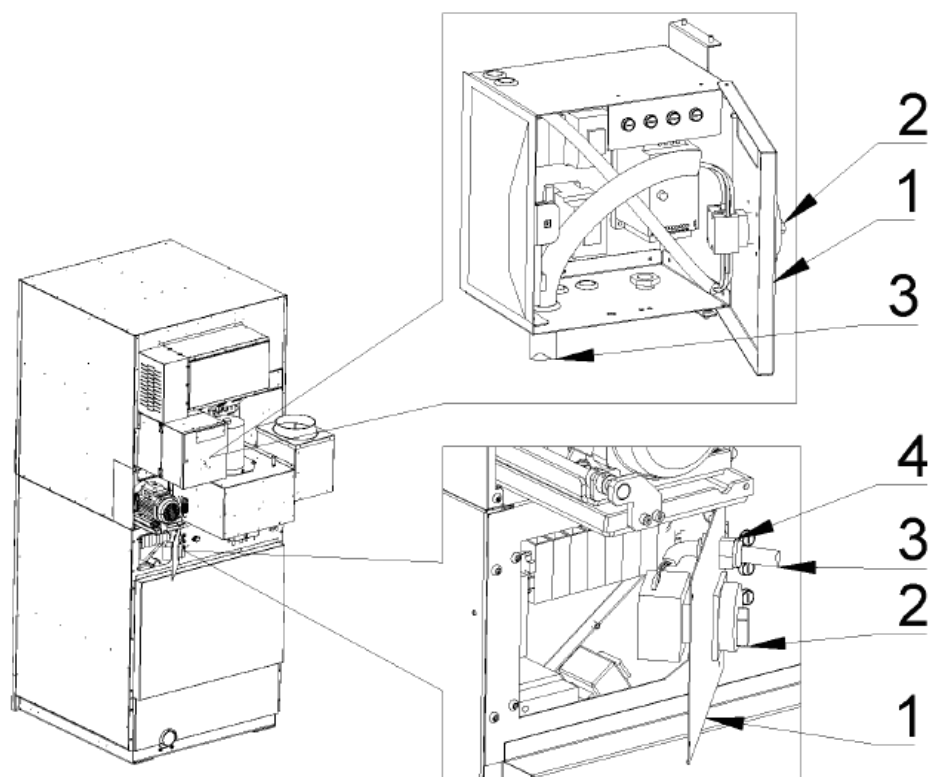
2.5 Wiring

The inlet hole of the machine power supply is set on the back to open the electric box sealing plate. Pass in the required cable from the waterproof cable connector and connect to the power switch.

Wiring reference electrical schematic (along with the machine).

Please select cables according to the local electricity standard according to the following table. Do not use cables that do not meet the standard to avoid damage to the machine and personnel damage.

1. Electric box cover
2. Power switch
3. Cable
4. Cable connector

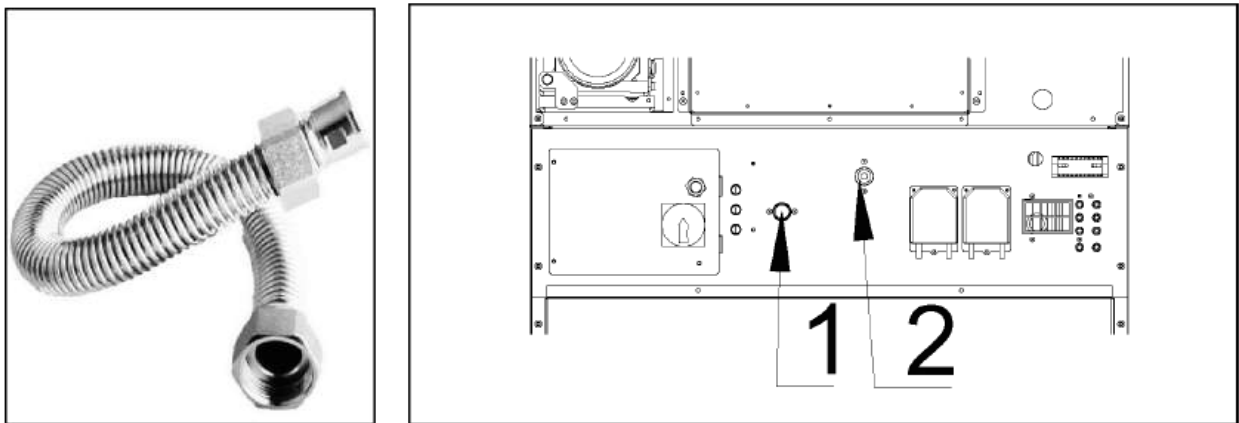


type	Wash configuration	Dryer configur	power rating	power rating	rated voltage	rated current A
12FWDD	electrical heating	electrical heating	24.97	33.5	220	113.5
					380	65.8
		gas	14.47	19.4	220	65.8
					380	38.1
12FWDD	Do not heat	electrical heating	12.97	17.4	220	59
					380	34.2
		gas	2.47	3.4	220	11.3
					380	6.5
16FWDD	electrical heating	electrical heating	25.32	34	220	115.1
					380	66.7
		gas	14.82	19.9	220	67.4
					380	39
16FWDD	Do not heat	electrical heating	13.32	17.9	220	60.6
					380	35.1
		gas	2.82	3.8	220	12.9
					380	7.5
22FWDD	electrical heating	electrical heating	33.12	44.4	220	150.6
					380	87.2
		gas	19.62	26.3	220	89.2
					380	51.7
22FWDD	Do not heat	electrical heating	17.12	23	220	77.9
					380	45.1
		gas	3.62	4.9	220	16.5
					380	9.6
27FWDD	electrical heating	electrical heating	44.8	6.1	220	203.7
					380	117.9
		gas	25	33.5	220	113.7
					380	65.8
27FWDD	Do not heat	electrical heating	24.8	33.3	220	112.8
					380	65.3
		gas	5	6.7	220	22.8
					380	13.2

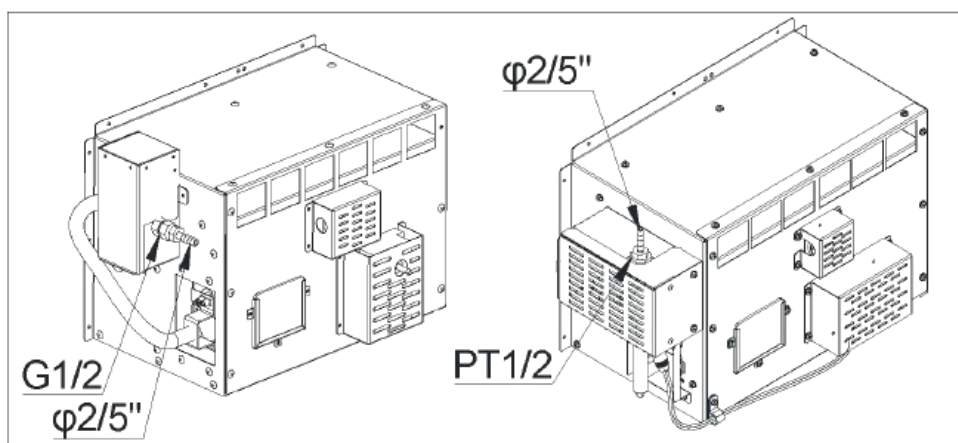
2.6 Heat the connection

If the hot water is needed, it can be connected to the no. 2 hot water pipe shown in the drawing, and the interface specifications refer to "2.9 water supply".

Gas heating machines need to arrange gas pipelines in advance.



If the terminal interface of the gas pipeline is a hose, the hose can be directly connected to the gas pipe joint. For safety, the connection should be fixed with a throat hoop. If the pipe terminal is a hard pipe, the gas pipe connection of G1 / 2 or PT 1 / 2 (according to the gas valve type) may be used.



2.7 Gas pipeline

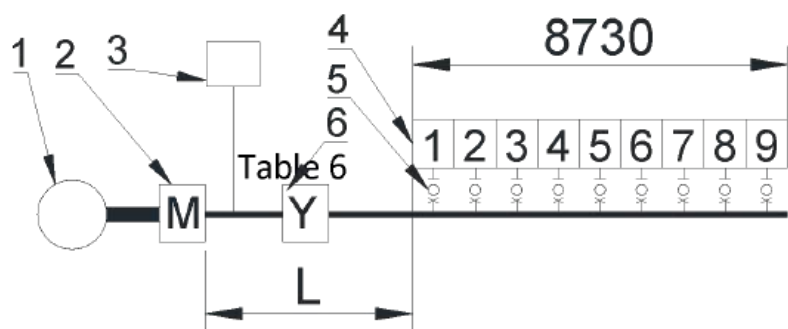
Gas heating dryer should arrange the gas pipeline in advance, refer to the following table and the following figure.

Domestic valve:

type	12FWDD/16FWDD /22FWDD /27FWDD
Maximum Pressure PSI [Kpa]	0.85[6]
Gas regulating range IN.W.C.[Kpa]	0.4-14.8[0.1-3.7]
B TU /hr.	116580 thermal units / h (123 MJ / hr)

Suction valve:

type	12FWDD/16FWDD /22FWDD /27FWDD
Maximum Pressure PSI [Kpa]	1/2[3.5]
Natural gas regulating range IN.W.C.[Kpa]	2.5-5[0.6-1.2]
LPG regulating range IN.W.C.[Kpa]	7-12[1.7-2.9]
British thermal units / hour	116580 thermal units / h (123 MJ / hr)



1. Main valve
2. Gas meter
3. Other gas equipment
4. Upper drying section
5. Sediment collector, pressure vessel and shut-off valve

Pipe size calculation

Total length = gas supply to the farthest dryer

= L + 8.73m

Total Btu / hr. = Total BTU for all dryers

= 116580 Btu/hr. x 9 sets

= 1049220 Btu/hr.

1000 British thermal unit gas drum dryer (standard conditions) at upstream pressure -17.4 ± 4 mba, 1.74 ± 0.37 kPa
 [7 ± 1.5 in.] Water column pressure

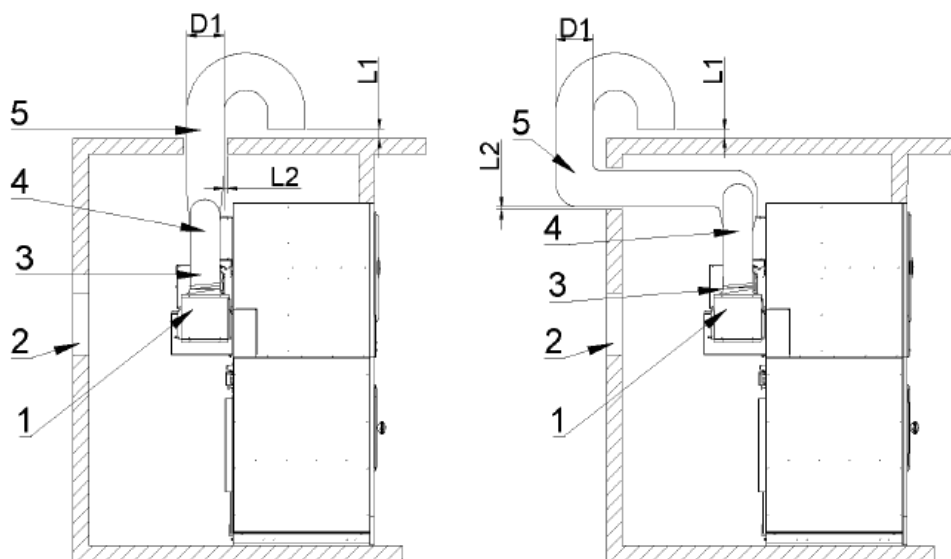
Gas unit production Total heat generated (British thermal unit / hour)	equivalent length					
	25 ft (7.6m)	50 ft (15.2m)	75 ft (22.9m)	100 ft (30.5m)	125 ft (38.1m)	150 ft (45.7m)
	The given length is based on a 0.3-inch water column pressure drop Size unit inch					
100000	3/4	3/4	3/4	1	1	1
120000	3/4	3/4	1	1	1	1
140000	3/4	1	1	1	1	1
160000	3/4	1	1	1	1-1/4	1-1/4
180000	3/4	1	1	1-1/4	1-1/4	1-1/4
200000	1	1	1	1-1/4	1-1/4	1-1/4
300000	1	1-1/4	1-1/4	1-1/4	1-1/2	1-1/2
400000	1-1/4	1-1/4	1-1/2	1-1/2	1-1/2	1-1/2
500000	1-1/4	1-1/2	1-1/2	1-1/2	1-1/2	2
600000	1-1/4	1-1/2	1-1/2	2	2	2
700000	1-1/2	1-1/2	2	2	2	2
800000	1-1/2	1-1/2	2	2	2	2
900000	1-1/2	2	2	2	2	2-1/2

1000000	1-1/2	2	2	2	2-1/2	2-1/2
1100000	1-1/2	2	2	2	2-1/2	2-1/2
1200000	1-1/2	2	2	2	2-1/2	2-1/2
1300000	2	2	2-1/2	2	2-1/2	2-1/2
1400000	2	2	2-1/2	2	2-1/2	2-1/2
1500000	2	2	2-1/2	2	2-1/2	2-1/2
1600000	2	2	2-1/2	2-1/2	2-1/2	3
1700000	2	2-1/2	2-1/2	2-1/2	3	3
1800000	2	2-1/2	2-1/2	2-1/2	3	3
1900000	2	2-1/2	2-1/2	3	3	3
2000000	2	2-1/2	2-1/2	3	3	3
2200000	2	2-1/2	3	3	3	3
2400000	2-1/2	2-1/2	3	3	3	3-1/2
2600000	2-1/2	2-1/2	3	3	3-1/2	3-1/2
2800000	2-1/2	3	3	3	3-1/2	3-1/2
3000000	2-1/2	3	3	3-1/2	3-1/2	3-1/2
<p>For LPG drum dryers, multiply the total heat (British thermal unit / hour) by 0.6. The product is the equivalent BF in the table above.</p>						

2.8 Intake of air and exhaust gas

The dryer needs to replenish the dry air to replenish the air discharged by the machine. The diameter of the exhaust outlet is 190mm.

The ventilation area of each dryer		
model	Air exhaust C.F.M(I/sec)	The minimum area of air window in. ² (cm ²)
12FWDD	800 (380)	110 (710)
16FWDD	800 (380)	110 (710)
22FWDD	1007 (475)	209 (1350)
27FWDD	1007 (475)	209 (1350)



1. Air vents
2. air window
3. Throat clamp and sealing tape
4. Exhaust Pipe
5. Main exhaust pipe

L1 Minimum clearance between exhaust pipe and wall or other obstacle 900mm

L2 minimum clearance 50mm

Separate exhaust: speaking from the energy efficiency, the exhaust of the dryer is best connected separately.

Maximum exhaust length: 14 feet [4.3m], 290° bends

The circular exhaust pipe diameter increases by 10% every 20 feet [6.1m]

The interface of the rectangular duct increases by 20% every 20 feet [6.1m]

Equivalent length calculation

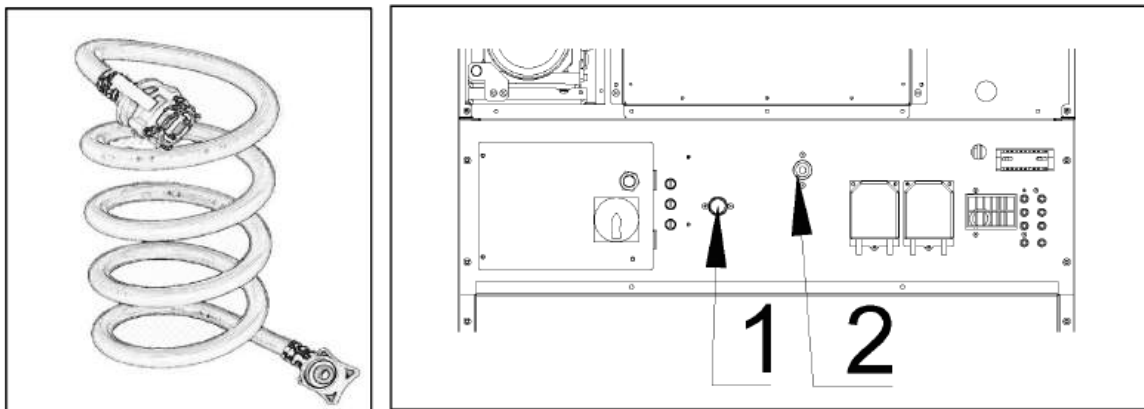
A 12-inch (305mm) pipe is 14 feet (4.3m) long and the equivalent length of two 90° bends

$$\begin{aligned}
 &= 14 \text{ ft (4.3m)} + (2) \text{ 90° elbow} \\
 &= 14 \text{ ft (4.3m)} + 14 \text{ ft (4.3m)} + 14 \text{ ft (4.3m)} \\
 &= 42 \text{ ft (12.9m)}
 \end{aligned}$$

Pipe diameter	The equivalent length of the relative straight line
8-inch (203mm)	190° elbow = 9.3 ft (2.8m)
10-inch, 254mm)	190° elbow = 11.6 ft (3.5m)
12 inches (305mm)	190° elbow = 14 ft (4.3m)
14-inch, 356mm)	190° elbow = 16 ft (4.9m)
16 inches (406mm)	190° elbow = 18.7 ft (5.7m)
18-inch (457mm)	190° elbow = 21 ft (6.4m)
Equivalent length (m) = 1.17 x diameter (mm)	

2.9 Water supply

The machine water inlet is set on the back and can be connected with the hose shown below. The interface specifications are shown in the table below.



joggl e	speci ficati ons	filter elem ent	maximu m temperat ure	maximum pressure	default setting	use
1	3/4"	have	30°C	58psi	cold water	slurry
2	3/4"	have	80°C	58psi	hot-water	Water for the external soap liquid distributor

2.10 Drainage

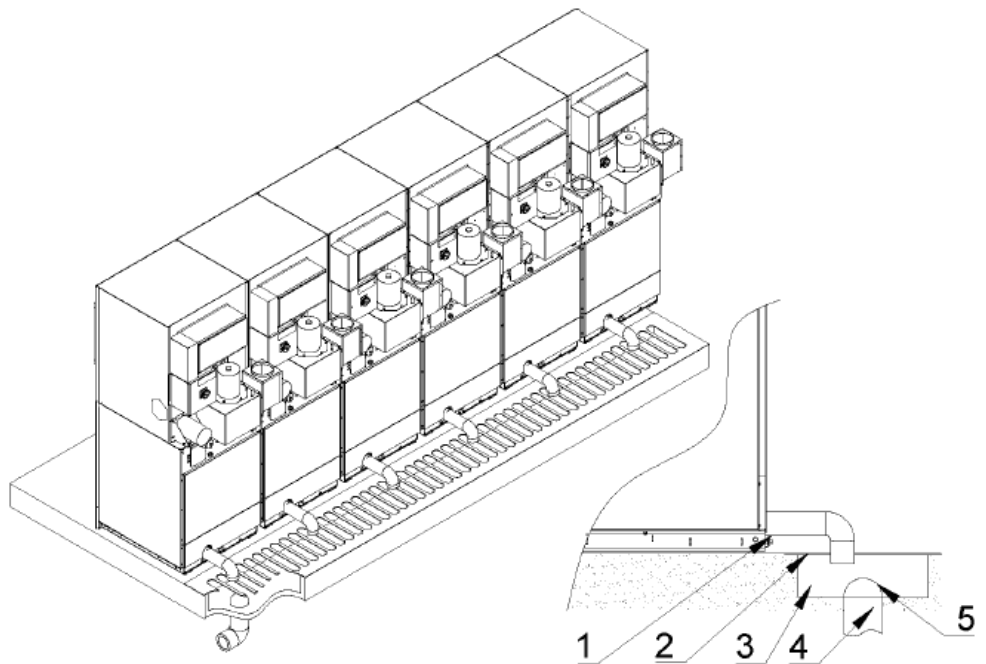
The machine drain is set on the back side with a diameter of 76mm

Users can arrange the drainage system according to the actual situation and provide two reference schemes.

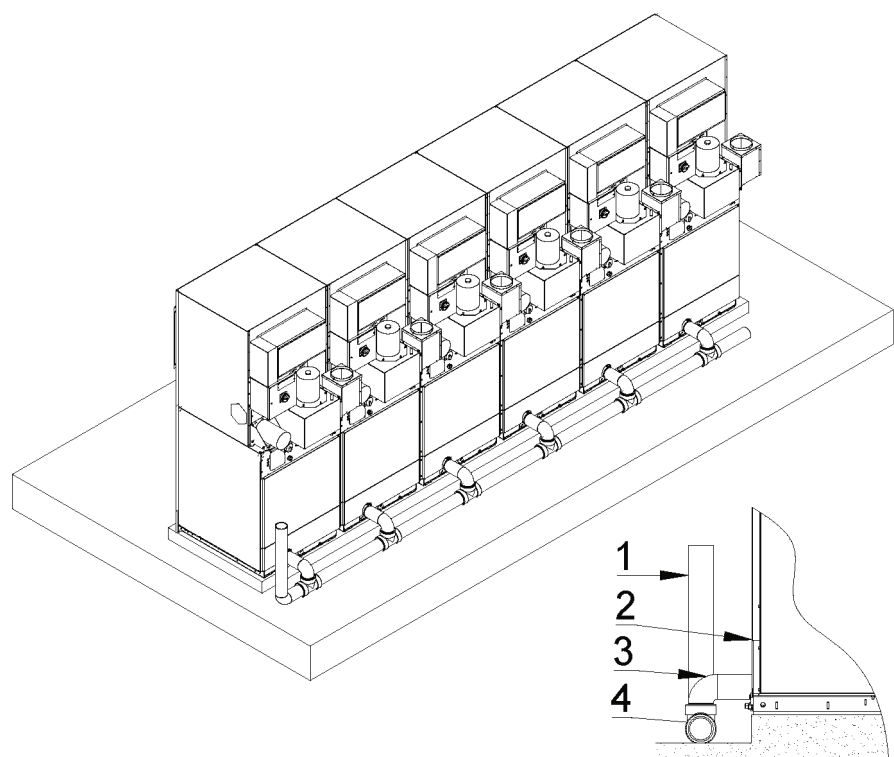
The lowest position of the drainage outlet should be higher than the highest

position of the total drainage pipe, so as to avoid the odor of sewage backflow or water, thus being transmitted to the machine through the drainage pipe, and pollute the washing clothes and air environment.

- 1.Drainage pipe
- 2.Sink cover
- 3.Sink
- 4.Main drain
- 5.Strainer

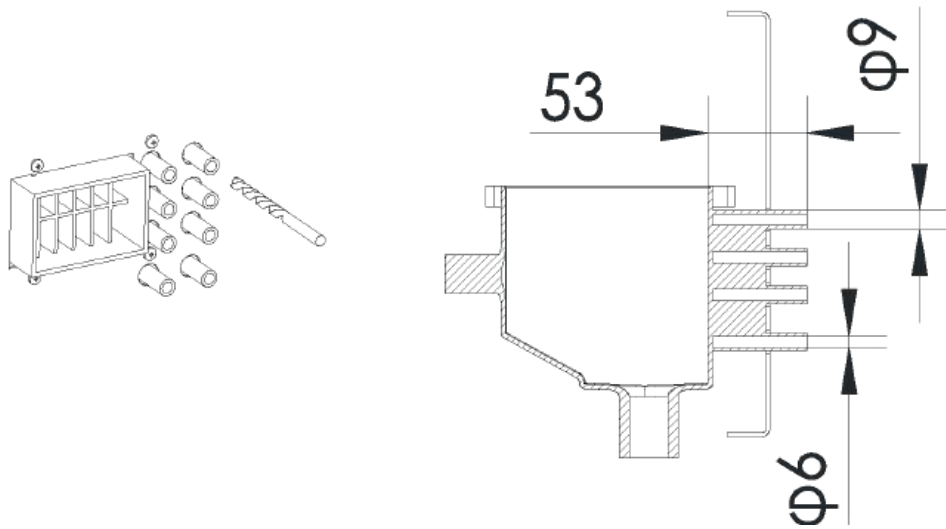


- 1.Air pressure balance tube
- 2.Machine
- 3.Drain pipe
- 4.Main drain pipe



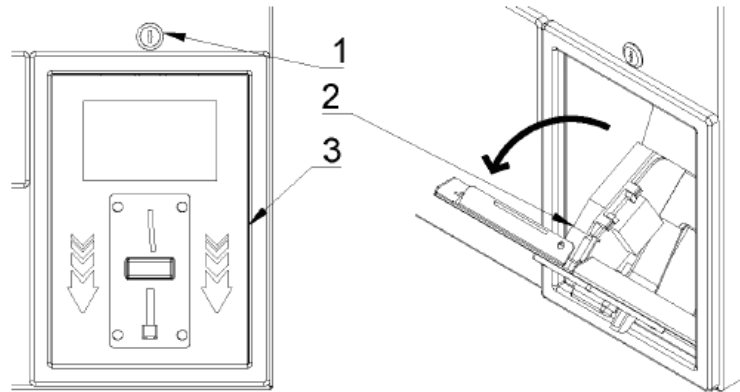
2.11 External soap liquid dispenser

The back of the machine is provided with the expanded interface of the soap distributor. The interface is closed by default. Users can install the external distributor with a 6mm diameter drill bit.



3. Debug

- 1. Air pressure balance tube
- 2. Machine
- 3. Drain pipe
- 4. Main drain



3.1 Debug the coin-operated device

Before using the coin-operated machine, the coin type and coin amount should be adjusted according to individual needs, open the operation panel and debug the coin-operated machine. For the specific debugging method of the coin, please refer to the coin for manual.

3.2. Debug the washing and drying procedures

Adjust the machine washing procedure: washing time, washing temperature, washing speed, soap liquid washing time, etc. Refer to the Computer Board Manual for specific adjustment methods.

Due to the environmental influence of each region, the drying effect under the same drying procedure will be affected. Users need to adjust the machine drying procedures: drying time, drying temperature, etc. Refer to the Computer Board Manual for specific adjustment methods.

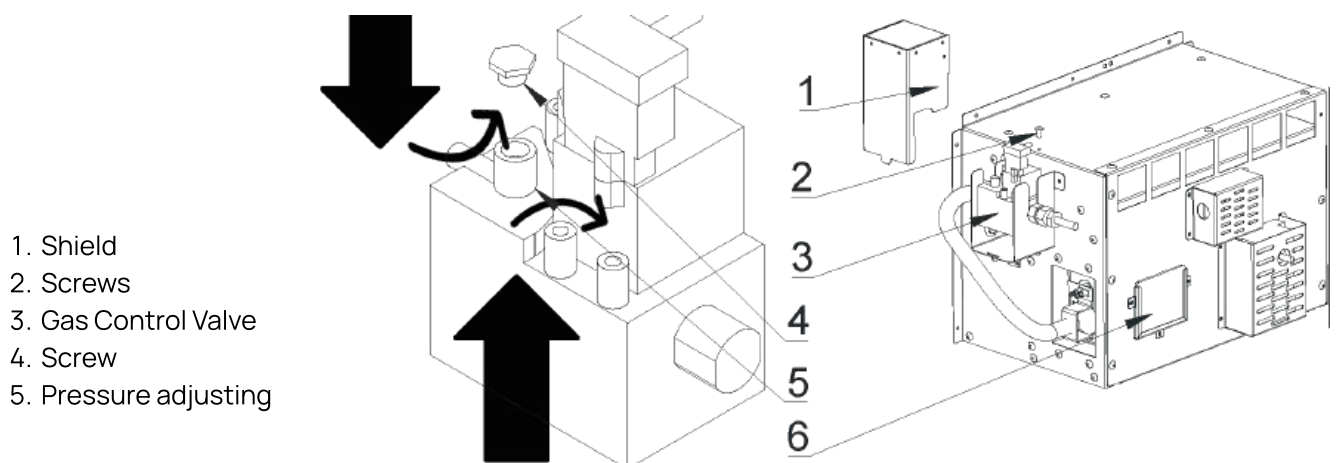
If there are abnormal phenomena during the debugging process, refer to "5 common faults and solutions"..3

3.3. Commissioning of the fuel gas control valve

The pressure of gas control valve has been adjusted before leaving the factory, and there is no need to adjust it. If the heating box combustion is abnormal and the gas pipeline pressure is abnormal, the gas control valve can be adjusted to adjust the flame.

Domestic valve:

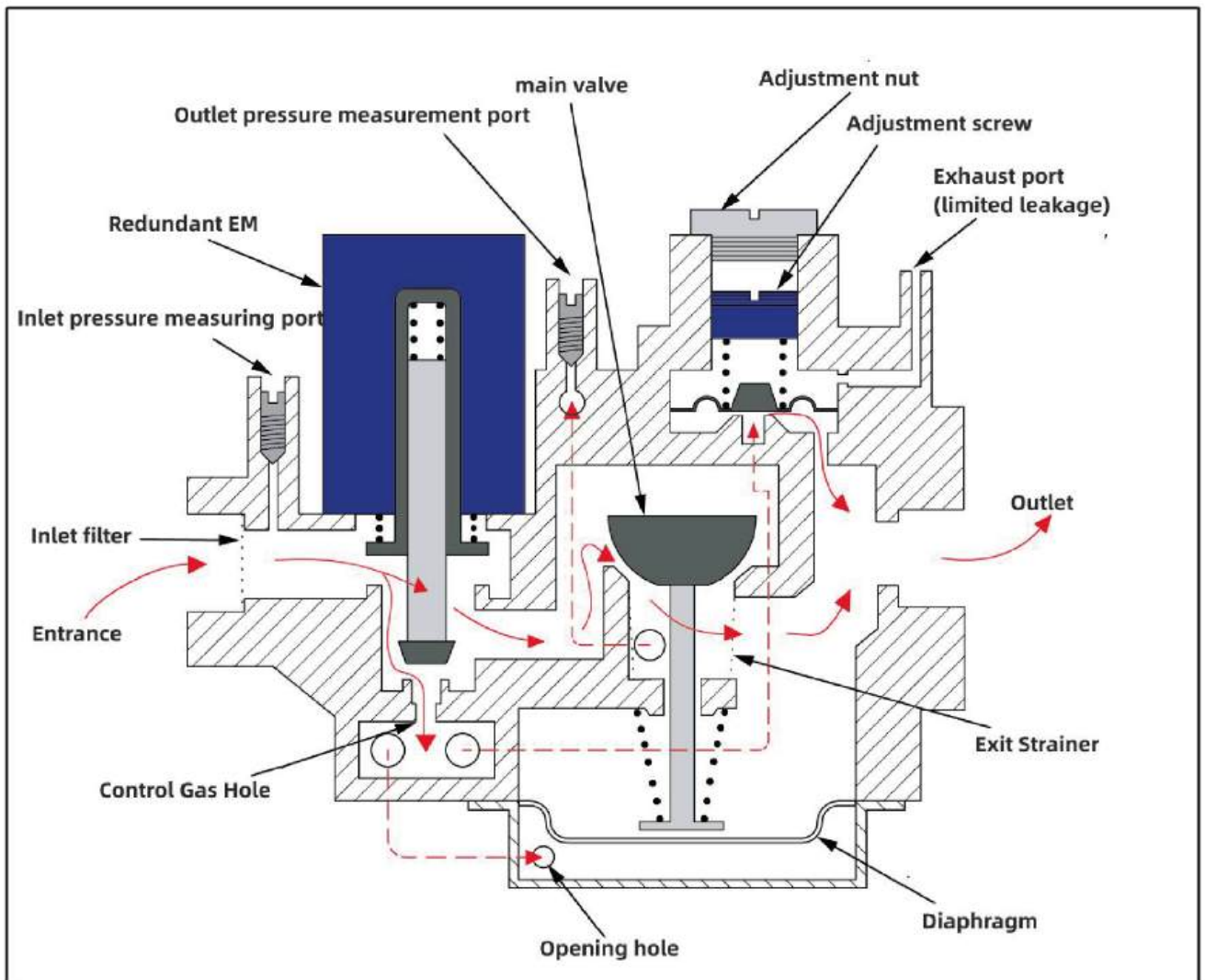
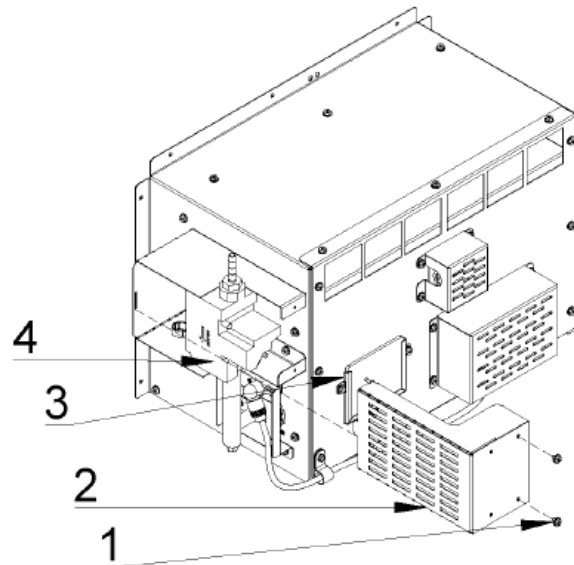
Remove the shield, unscrew the gas control valve screw, turn the pressure adjustment screw clockwise, the pressure rises, turn the pressure adjustment screw counterclockwise, the pressure drops.



Suction valve:

Remove the shield, unscrew the gas control valve screw, twist and adjust the screw clockwise, the pressure rises, twist and turn the adjustment screw counterclockwise, the pressure drops.

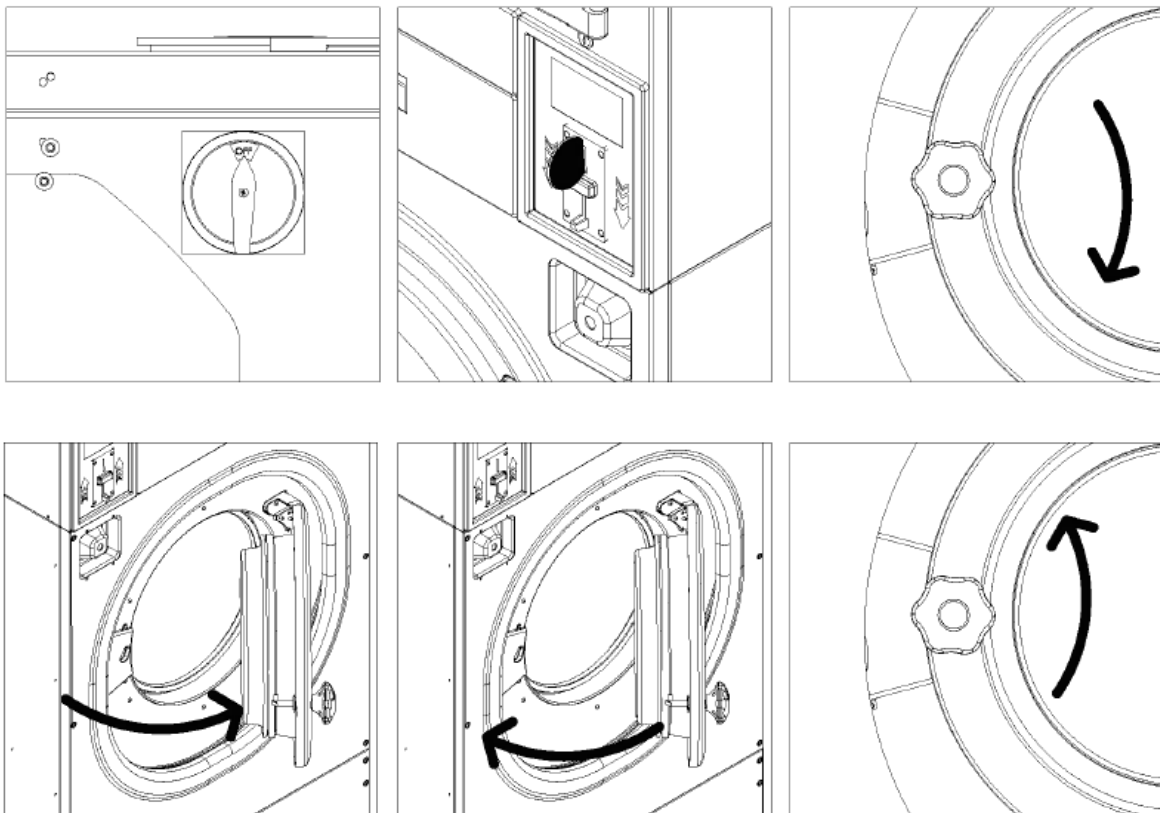
- 1.Screws
- 2.Shield
- 3.Gas control valve
- 4.Flame observation



4. Simple operation to use

4.1 Wash

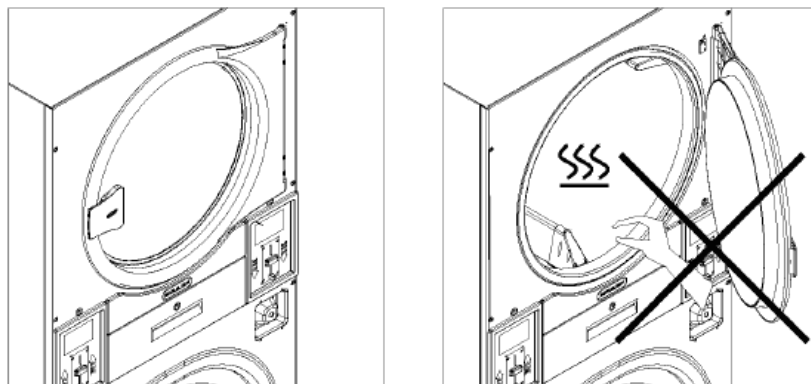
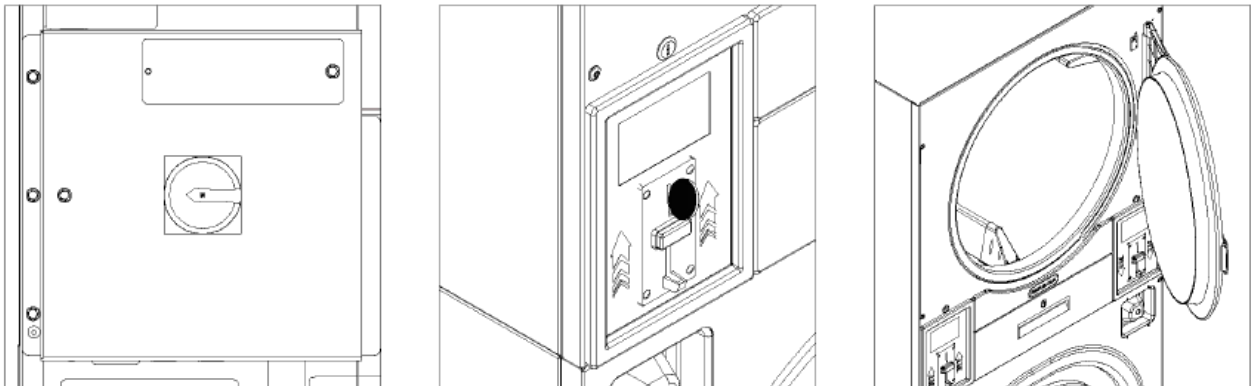
1. Ensure that the power supply, water supply and drainage are normal, and confirm that there is no foreign matter in the machine tank and no dangerous goods around the machine.
2. Turn on the power supply switch
3. Coin (skip this step)
4. Unlock (door handle rotates clockwise)
5. Open the door
5. Put clothes in
6. Close the door
7. Lock (click counterclockwise)
8. Start operation
9. When the machine completely stops running, open the door
10. Remove the clothes



4.2 Dryer

1. Confirm that the power supply, exhaust pipe and gas pipeline (gas heating type) are installed correctly, and confirm that there is no foreign body in the tank of the machine and that there is no dangerous goods around the machine.
2. Turn on the power supply switch
3. Coin (skip this step)
4. Open the door
5. Put clothes in
6. Close the door
7. Start operation
8. Open the door after the machine stops running completely
9. Take out your clothes

Note: Do not touch the liner until the temperature is reduced to safety



5. Maintenance

5.1. Daily cleaning and maintenance

Only the inner bladder can be cleaned. Make sure the detergent is flushed to avoid damage to the liner in direct contact with the clothing. The back of the machine is made of galvanized plate material, which should be cleaned clean in time after cleaning.

Users are advised to test and maintain the following facilities during a fixed cycle:

The villus collector cleaned the villus regularly according to the degree of use.

Check whether any foreign body remains inside the machine and whether any soap liquid remains in the soap box once a day.

Whether the coin-operated machine works normally, whether the water supply and drainage is normal, whether there is water leakage, and the gas pipeline sealing is checked once a month.

Check whether the belts and sealing rings are aged or damaged once every six months.

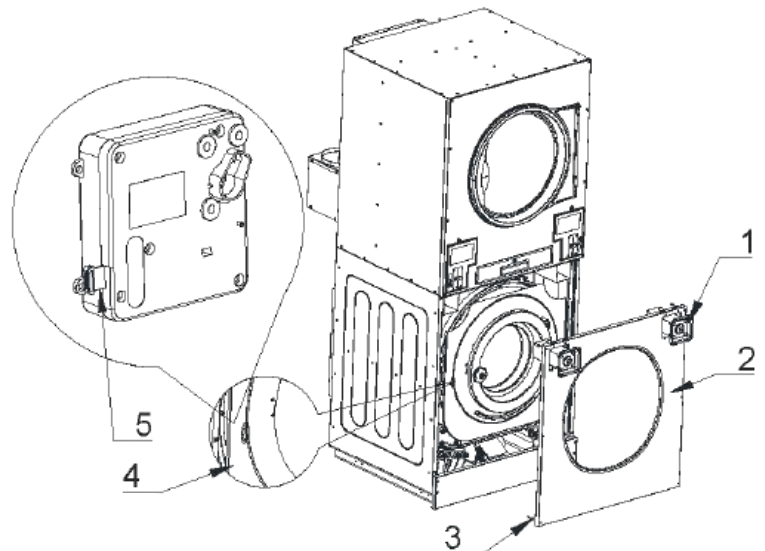
Whether the fixed feet is loose, check the exhaust pipe every 12 months.

5.2 Emergency unlocking

If a sudden power failure occurs during the normal washing process, it is necessary to open the door lock manually.

1. The coin-operated machine takes out the money box first
2. Remove the front middle panel
3. Use a one-line screwdriver to push through the emergency lock hole

1. Money box
2. Front center panel
3. Hexagon socket countersunk head screws
4. Emergency unlock hole



5.3. Common faults and solutions

5.3.1 Wash

1. UV sterilization lamp does not work

- ① Please replace whether the three fuses of the machine are burned out normally.
- ② Whether the 12V power supply is working normally with or without voltage.
- ③ 12V intermediate relay works normally coil suction and should guide the antenna.
- ④ UV sterilization whether there is a voltage at the nearest joint of the lamp, the voltage is likely to be the lamp burned out, replace a new lamp set

2. When the door handle closes, the screen still shows that the door is open

- ① Door handle internal roof tight frame deformation, repair or replacement
- ② The door closing micro switch is damaged, or the micro switch wiring falls off.
- ③ The signal terminal of the circuit gate falls off.

3. Unable not lock the door and display the door pin input fault

- ① The electromagnetic lock does not output.24v power supply failure or fuse damage, electromagnetic lock fault
- ② Electromagnetic lock output.1 door pin micro switch wiring or micro switch damage 2 mechanical output block, electromagnetic lock lock pin is blocked, can not be fully output.

4. The machine sends power to trip

- ① The wiring of the drainage valve at the bottom of the machine is loose and short-circuit
- ② Electric box circuit falls off and short circuit.

5. The door ring rubber ring is leaking

- ① Door rubber ring aging replacement
- ② After the door handle closes, the positioning pin is in the positioning hole. Close the door again and observe
- ③ Door lock seat cushion plate to reduce a increased compression force.

6. The cold water valve is not water or slow

- ① There is water flow but slowly check whether the voltage is normal
- ② Water inlet valve water inlet blockage cleaning
- ③ The inlet valve does not enter water but the voltage is normal to replace the inlet valve
- ④ The inlet valve has no voltage to check whether the circuit board cold water point and N (neutral line) output 220V voltage fuse is burned out

5.3.2 Dryer

1. Ignition failed

- ① The exhaust motor does not rotate in the identified direction.
Incoming line power supply, where two fire lines switch positions. (No not exist for single-phase model)
- ② No ignition needle the ignition spark.
The controller does not get the voltage, check the upstream line.
Ignition high-voltage line is broken and broken. Check whether the whole wire is connected with the universal transformer.
Touch between ignition needle and combustion tube, adjust the distance between ignition needle and combustion tube (3-5MM best)
Control box failure. Replace the control box.
- ③ There is an electric spark, but no effective flame appears
Gas pressure does not meet the ignition pressure. Install the pressure reducing valve to the optimal pressure.
The gas control valve cannot be opened. The gas control valve valve has no 30 voltage, or the gas control valve fails

2. The direction of rotation and display direction of the dryer do not consistent.

- ① Incoming power supply, switch position between two fire lines.
(No not exist for single-phase model)

3. Windgate failure

- ① The exhaust motor does not rotate in the indicated direction.
Incoming line power supply, where two fire lines switch positions. (No not exist for single-phase model)
- ② Check the air valve micro switch line and insert it.
- ③ The air valve switch bracket blockage resistance is too large to absorb.
Clean up or replace the bracket assembly if necessary.

4. Display device with blue screen, black screen and white screen.

- ① Open the installation controller flip panel, check the back of the screen for moisture. Wipe and treat the water drops against moisture. Wait for a while later in use.
- ② Replace a new cable (display-front panel)
- ③ Replace it with a new monitor.

5. Transmission motor overheating current.

- ① Whether the motor wiring mode and the model voltage match.
(220V triangular connection method 380V star connection method)
The optional frequency converter model shall be determined according to the output voltage of the frequency converter.
- ② The bile resistance is large. The bearing is and missing oil.
Replace the bearing
- ③ The bile resistance is large. Belt take-off roll, reinstall the belt and calibrate

- ④ The bile resistance is large. The rear plate extrusion the bottom of the inner bladder, rotation is difficult, the inner bladder to remove the friction extrusion fault.
- ⑤ Run using the rated frequency.

If the problem is not solved, please contact the local agent or the manufacturer