

MANO

Installation Manual

[MANO3 PRO-H2]

2026

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1. Pre-Installation Preparation

1.1. Product Package

1.1.1. Product Components



① HEAD(2gr)



② BOILER * 2



③ Tablet PC



④ Silicone hose * 6



⑤ Power Cords * 2

1.1.2. Optional Items

The following items are available for separate purchase.



① Pitcher Rinser

(A 1.2 m drain hose included)



② Water Filter

(Connection fittings included)



③ Drip Set

1.2. Required Tools and Materials

Prepare the necessary accessories and tools for installation.



Digital Scale (0.1g increments)



Multi-purpose Scissors



Hose Cutter



Cable Ties



1/4" Tubing



Phillips Screwdriver



Electric Drill

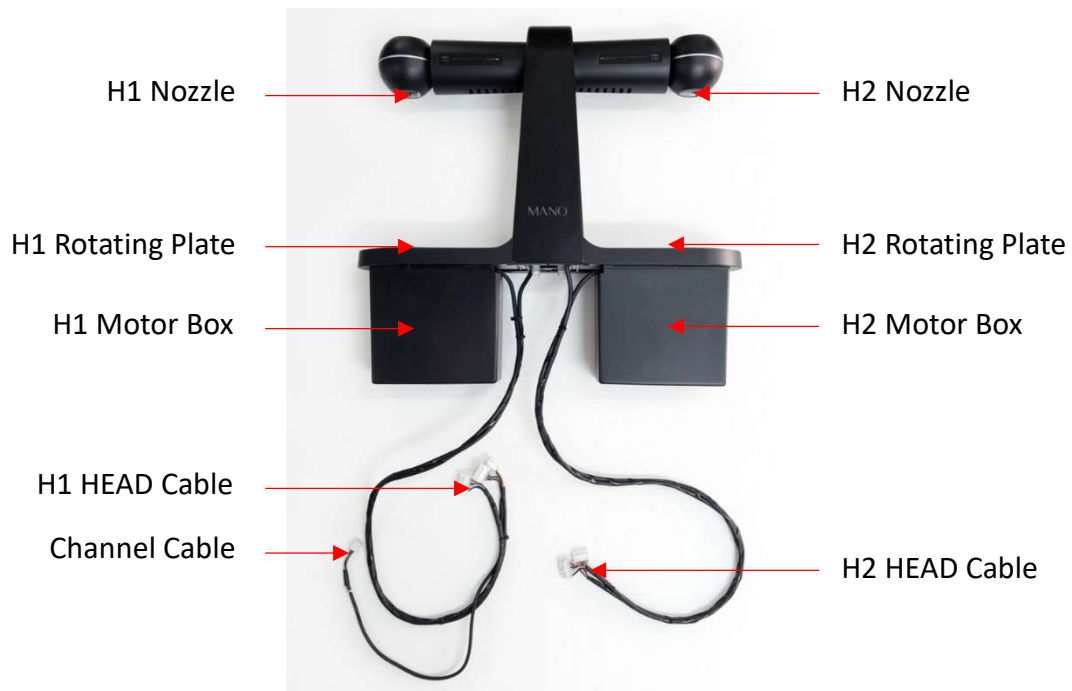
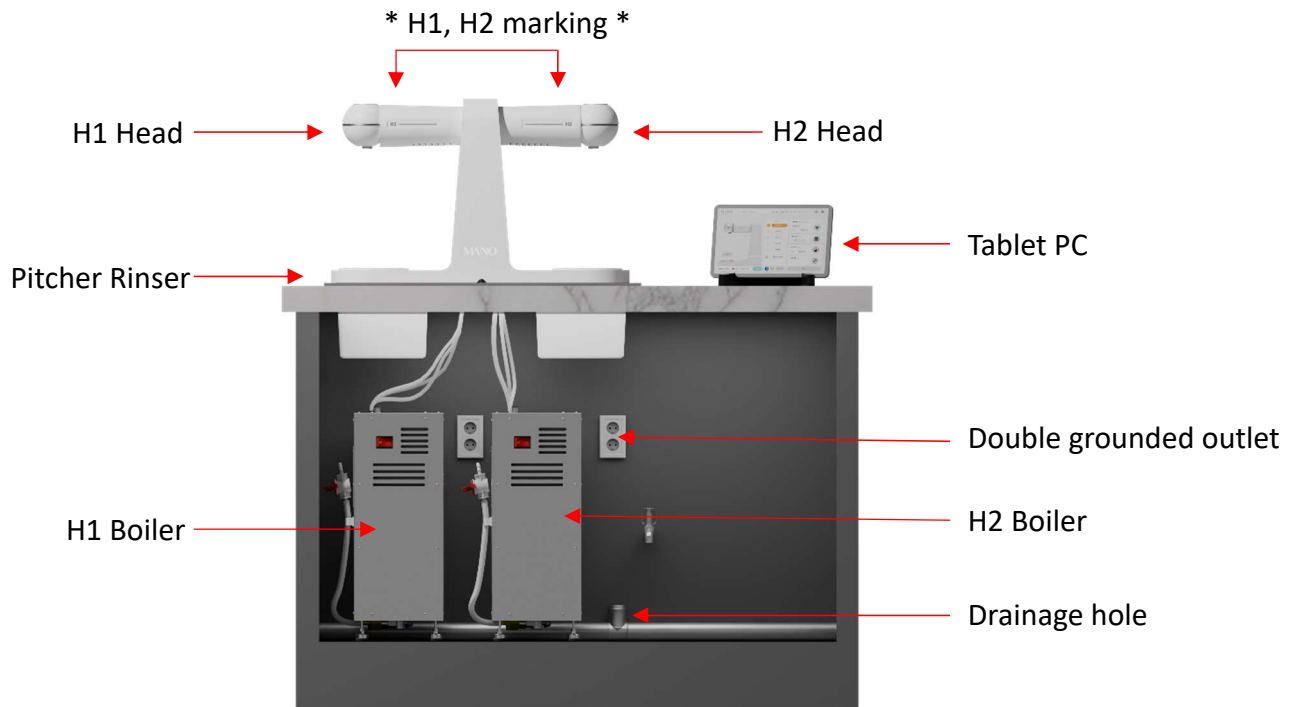


Feed Water Fitting

1.3. Parts Names

Check the component names before product installation and use.

① Product & Installation Area



② Boiler Components

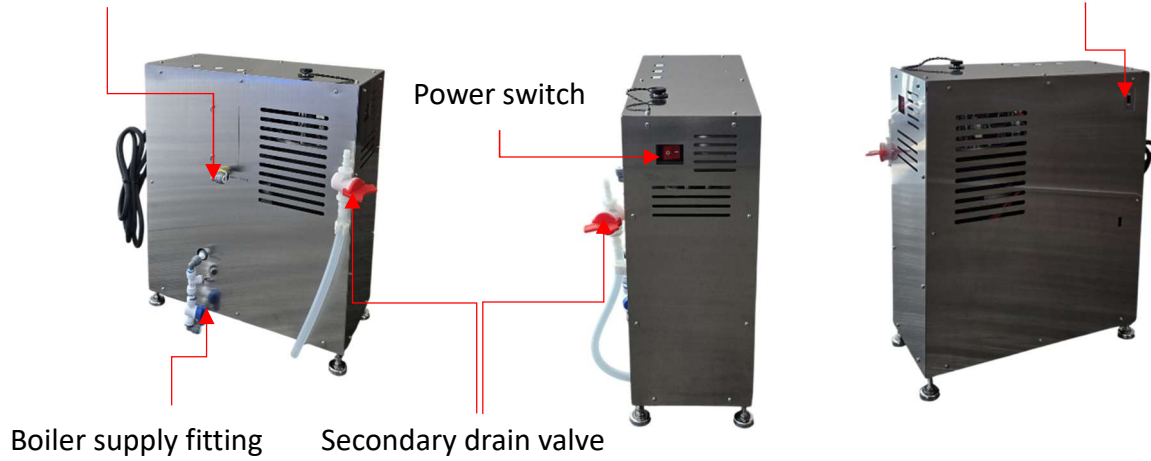
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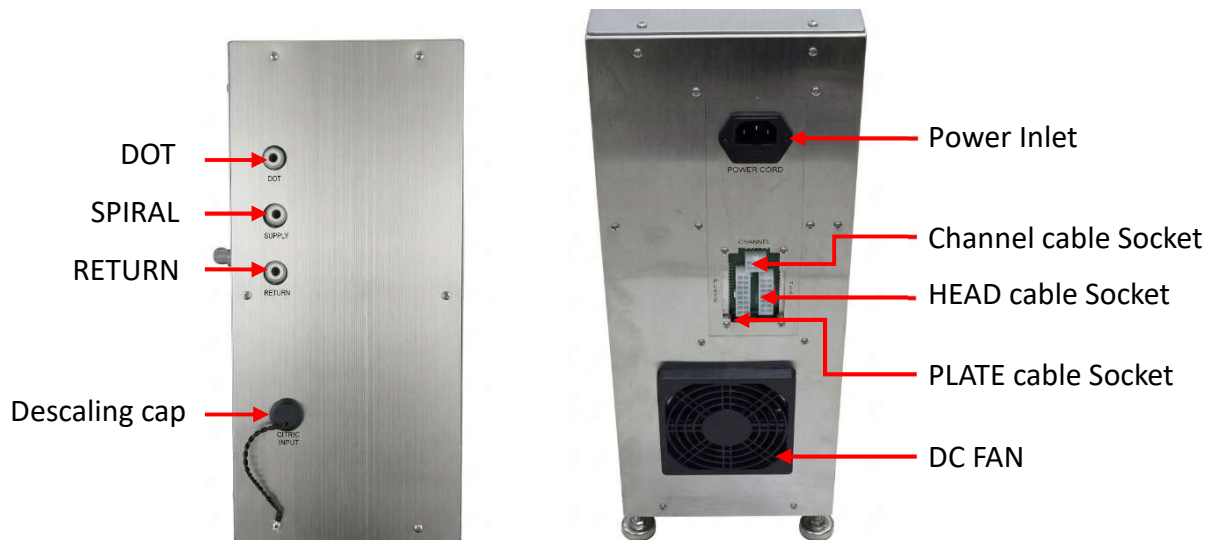
Drain Fitting (Descaling/Steam)

Channel switch



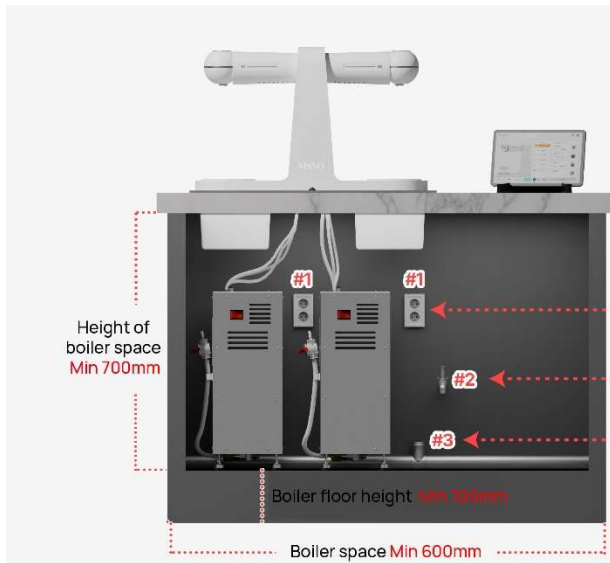
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1.4. Installation Site Check

Verify the installation space, cut-out dimensions, power outlets, and water supply/drainage locations.



The diagram shows a top-down view of a boiler unit with various components labeled #1, #2, and #3. Red dashed lines connect these labels to the corresponding sections of the installation requirements. Dimensions for boiler space height and floor height are also indicated.

01. Electrical specifications

1. Leakage circuit breaker : Single-Phase 220-240V / 20A or higher

↓

2. Double grounded outlet x 2EA ★ Grounded

* Electrical Requirements

- ① Voltage: 220-240V
- ② Total Power Consumption: 3.4kW (16A)
- Power Consumption per Boiler: 1.7kW (8A)

※ Any issues caused by lack of grounding will be considered as user negligence.

02. Water supply

15A male screw ball valve * 1EA (Exclusive water supply)
Supply water Pressure : 0.6~1.5kg/cm²

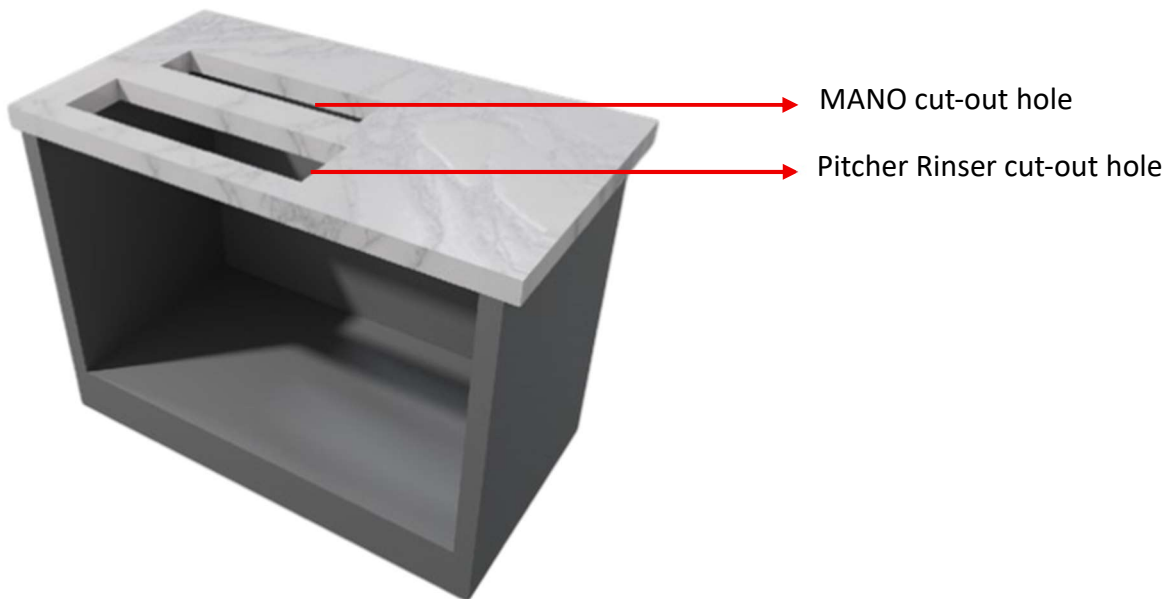
03. Drainage hole

50Φ * 1EA
(Required for auto descaling line and steam line Installation.)

※ It is recommended to keep the entrance of the table where the boiler is installed open.
- If a door is installed, please make sure to include proper ventilation openings.
- Any issues caused by insufficient ventilation will be considered as user negligence.
※ 1 Boiler Size : 162(W) x 371(D) x 460(H)

※ Please prepare the drain close to the boiler.
- If the drain is away from the boiler, the auto descaling function may not be available.

⚠ The area below the hole must be completely free of any obstructions.



2. Hardware Installation

2.1. Pre-installation Setup

2.1.1. Connecting Feed Water Fitting

Install a 1/4" fitting that matches the thread size of the feed water pipe.



2.1.2. Pitcher Rinser Installation

① Connect the drain hose to the Pitcher Rinser's drainage component and secure it with a cable tie.



② Check the direction of the drain pipe and hose, then align and fix the Pitcher Rinser into the cut-out hole.

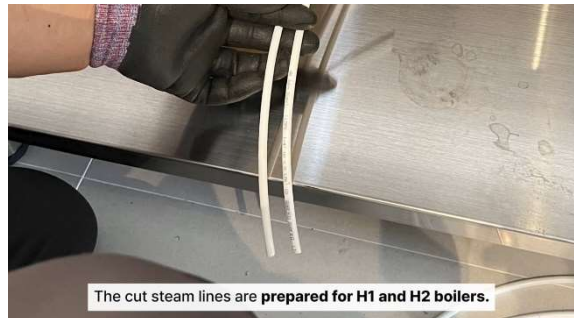
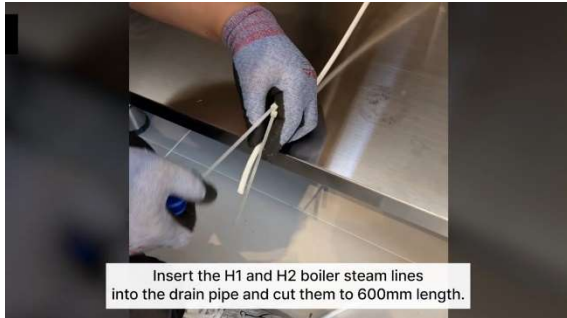


③ Insert the drain hose into the drain pipe to complete the installation.



2.1.3. Preparing Drain Hoses(Descaling/Steam)

- ① Prepare two 600mm lengths of 1/4" tubing and insert them into the drain pipe.



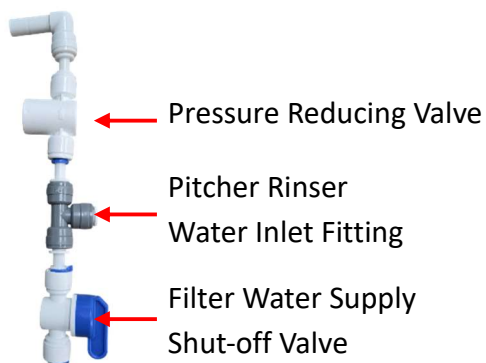
- ② Secure the 2 × 600 mm hoses to the Pitcher Rinsers drain hose with a cable tie to prevent them from coming out of the drain pipe.



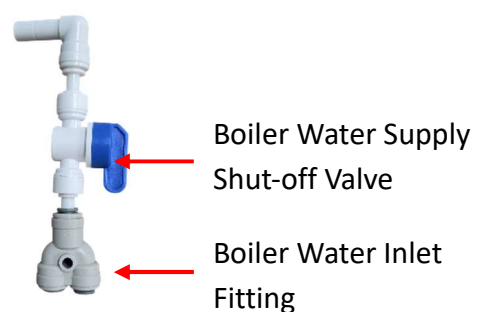
2.1.4. Water Filter Installation

- i** Check the purpose of the connection fittings supplied with the water filter.

<IN Fittings>



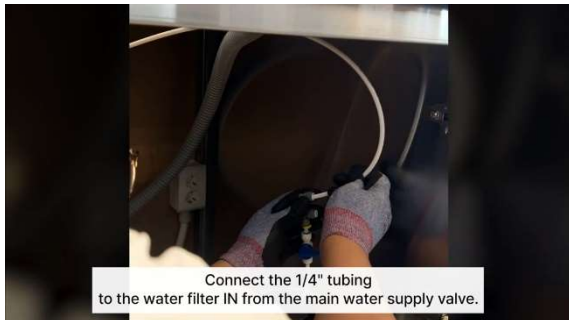
<OUT Fittings>



- ① Place the water filter upright in the designated installation area.
- ② Depending on the environment, mount it to a wall or place it upright on the floor.
 - 🔧 **For wall mounting:** Use an electric drill to secure it firmly.
 - ⚠️ **If not mounted, ensure the filter remains horizontal and does not tilt.**



- ③ Connect the 1/4" tubing from the feed water fitting to the Filter Water Supply Shut-off Valve.



- ④ Connect the 1/4" tubing from the Pitcher Rinser fitting to the Pitcher Rinser Water Inlet Fitting.



2.2. Main Body Installation

2.2.1. Head Installation

- ① Position the head so that the **H1** and **H2** markings face the operator (inside the bar).



② Connect 6 silicone hoses to the 6 one-touch fittings at the bottom of the head.

i Push the hoses in completely to ensure they are securely connected.



i Feed the hoses and cables through the cut-out hole before placing the head.

⚠ Ensure hoses and cables are not kinked, bent, or pinched.



2.2.2. Boiler Installation

- ① Check the channel switch on the right side of the boiler.

i Switch **UP** = MAIN, Switch **DOWN** = SUB.

- ② Assign the **MAIN** unit as the **H1 boiler** and the **SUB** unit as the **H2 boiler**.



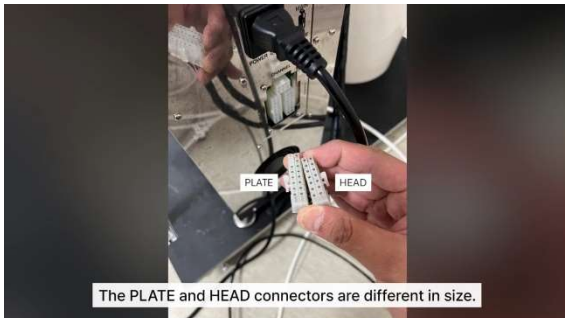
- ③ Connect the power cord, head cables, and channel cables to the boiler.

i Repeat the same process for both H1 and H2 boilers.

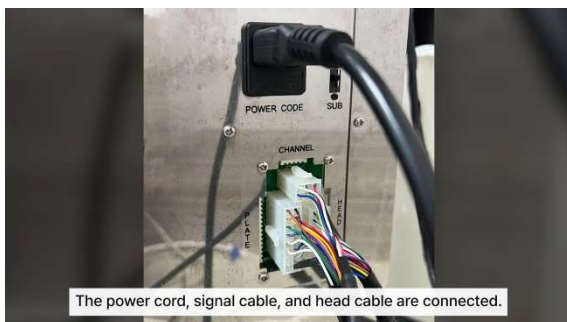
i The channel cable is bundled with the H1 cable.

! Distinguish between the **PLATE connector (16-pin)** and **HEAD connector (14-pin)** sizes.

! Push until you hear a "click" to ensure a full connection.



- ④ Insert the power cord fully into the power socket on the boiler and the wall outlet.

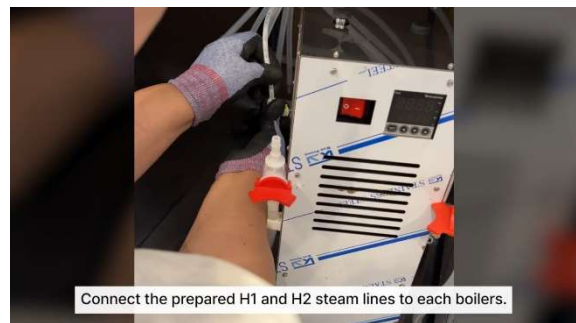
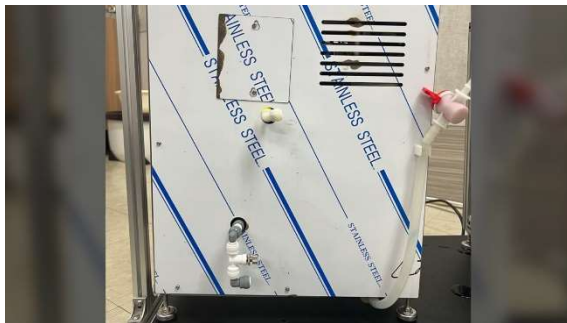


- ⑤ If the boiler wobbles, adjust the bottom leveling feet.



2.2.3. Descaling/Steam Hose & Boiler Water Supply

- ① Connect the prepared 600mm descaling/steam drain hoses to the Drain fittings(descaling/steam) located on the left side of the H1 and H2 boilers, respectively.

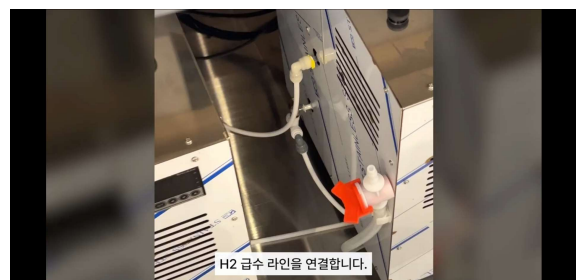


- ② Connect 1/4" tubing to the boiler water inlet fitting, then cut and prepare each length to reach the boiler supply fittings of the H1 and H2 boilers.



- ③ Connect the prepared 1/4" tubing to the boiler supply fittings of the H1 and H2 boilers, respectively.

⚠ Push the hoses in completely to prevent leaks.



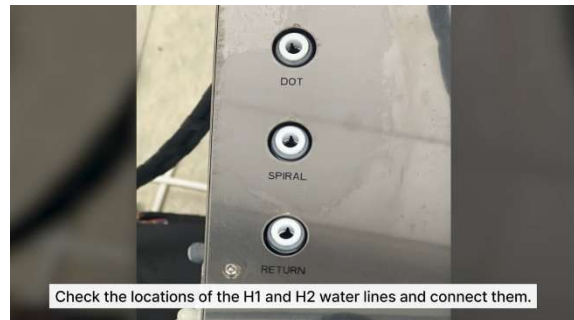
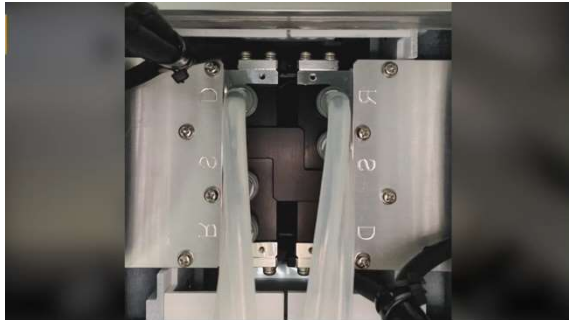
2.2.4. Connect 6 Silicone Hoses

⚠ Check the labels on the bottom of the head and the boiler first.

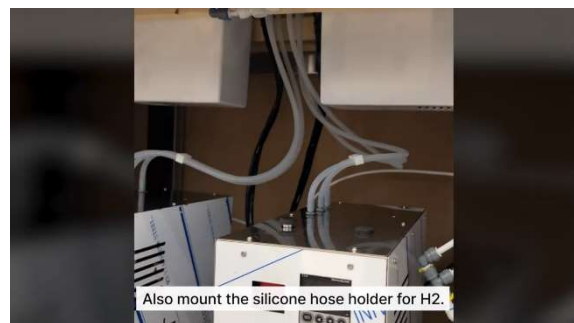
① Connect the water lines from the head to the boiler as follows:

- Head D → Boiler DOT
- Head S → Boiler SPIRAL
- Head R → Boiler RETURN

⚠ For the **H2 head**, the R and D directions are reversed. Connect with care.



② Use hose holders to organize the lines after connection.



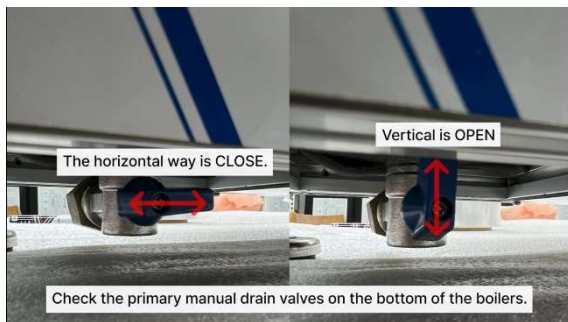
3. Final Inspection

3.1. Valve and Cap Status Check

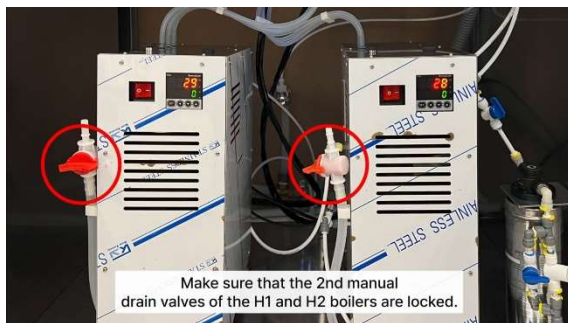
- ① Ensure the water supply valve is **OPEN**.



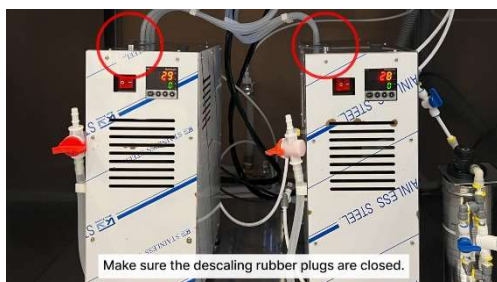
- ② Ensure the primary drain valve at the bottom of the boiler tank is **OPEN**.



- ③ Ensure the secondary drain valve is **CLOSED**.



- ④ Confirm that the descaling cap is properly tightened.



3.2. Boiler Power ON

Check the status of the valves and caps, then turn on the power of both the H1 and H2 boilers.

3.2.1. Head Operation Check

- ① Check the left-right movement of each head Nozzle.
 - ② Check the up-down movement of each head Rotating plate.
- ⚠ **If it does not operate normally, disconnect and reconnect each head cable.**

3.2.2. Tank Water Supply Check

- ① Water supply starts automatically when the boiler is turned on.
- ② Lift the front of the boiler at 45 degrees and hold for 10 seconds.
- ③ Perform this for both H1 and H2 boilers.

