Key Notes for Startup of Hot Water Bath+Heat Exchanger for Hydrostatic Pressure Tester

Description



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1- Place bath in secure place so that at least 1 meter around it need to be empty for service and repair
2- According to the power of heating of bath you need electric panel with proper circuit breaker small size bath has 6KW power, medium size is 18KW, Big size is 30KW power
3- Bath has pneumatic door and need compressed air supply with pressure of minimum 6 bar
4- First step is a need for air supply to open the door of bath , air input is as below picture [Air], it is 6mm or 8mm air hose input

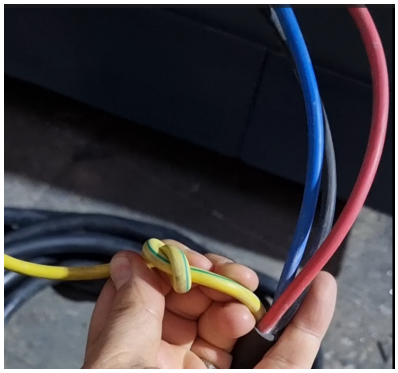


5- Then open the door via a key on main panel as below picture [Door (Open/close)]. For proper door open/close there are two flow valves on each pneumatic cylinder of the door that should be set properly for even door close and open.



6- Fill the bath with tapped water with very low level of hardness up to at least minimum height
7- Note: before filling water never connect electric power supply

8- Power supply is 380 V- 3ph with proper power for bath as per heating power
9- Connect the power supply cable as below picture. Yellow/green(it is shown with node on the wire) wire is null and other 3 are three phases.



10 -Connect the auto fill hose of the bath as below picture. it is equipped with level sensor and solenoid valve to automatically keep the heigh of water in bath.

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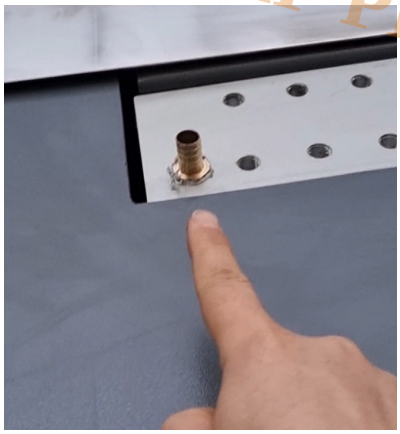

11- Close the outlet valve of bath that is placed somewhere beneath the bath as below picture. for safety of this valve during transport it is opened and keep somewhere along with goods that you received. Be sure that this valve need to be closed before filling of the water bath.



12- Connect drain hose. It is paced in the back top side of the bath



13- There is a outlet connection from the bath to pressure unit that you can use in case of inlet water to pressure unit. [Out to Pressure Unit]



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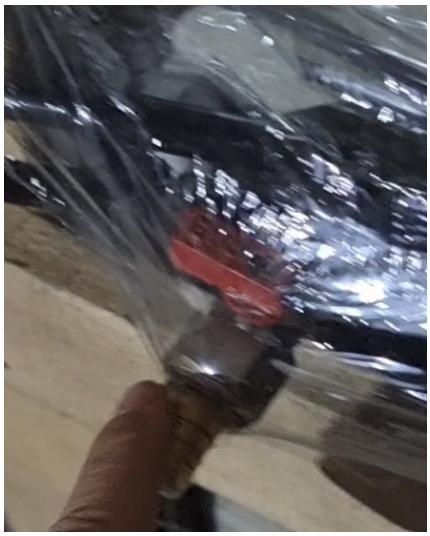
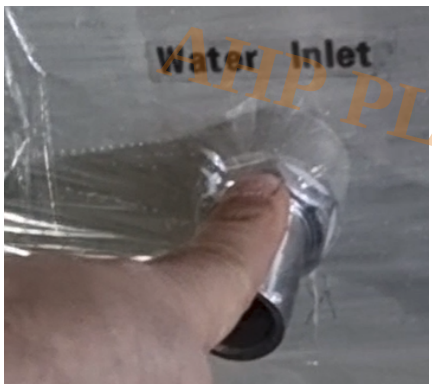
14- For the bath with heat exchanger, there are two hose connection that is water inlet and water outlet to the chiller. [Water outlet and water inlet]



15- Above hose connection of the bath will goes to the chiller connections as below pictures.





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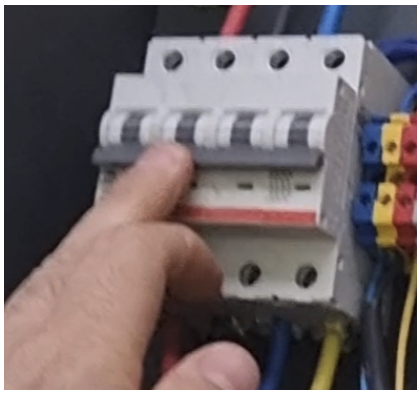
16- Bath has 2, 4 , 6, 8, â€¦. number of inputs from pressure unit as per customer request. size of these inputs are 1/4inch female or as per customer request.



17- After connections of all hoses to the bath, please connect earth connection to the main body of the bath.
18- Now you can turn on main circuit breaker of the bath that is paced inside the main power panel



19- After power on of the machine, be sure that circulation pump is working. and the input valve of the reservoir for installation of heating elements is open. meaning that water circulation is complete from bath to heating element small tank and then back to the bath from upper corner side.
20- If bath has heating and also heat exchanger main panel includes a key named [cooling-off-heating]. This means that if target temperature is below present temperature and you need to cool down the bath temperature, turn this key to [cooling] side and vice verse. When you put it on cooling side, chiller will be working automatically unless chiller will not be working. Also if you put this key to heating side, first heating element will be on working and others will be active when you turn each heating element separately.

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21- Other 4 heating element keys are shown in below picture.



22- Next step is setting temperature in the main controller of the bath. All parameters of the controller is shown in the other post.
23- Main notes: ground connection, filling water before electric connection, tapped and low hardness water use unless heating element will be blown rapidly, periodical change of water to be clean

Category

1. Technology

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