



高效全自动喷头清洗机

使用说明书

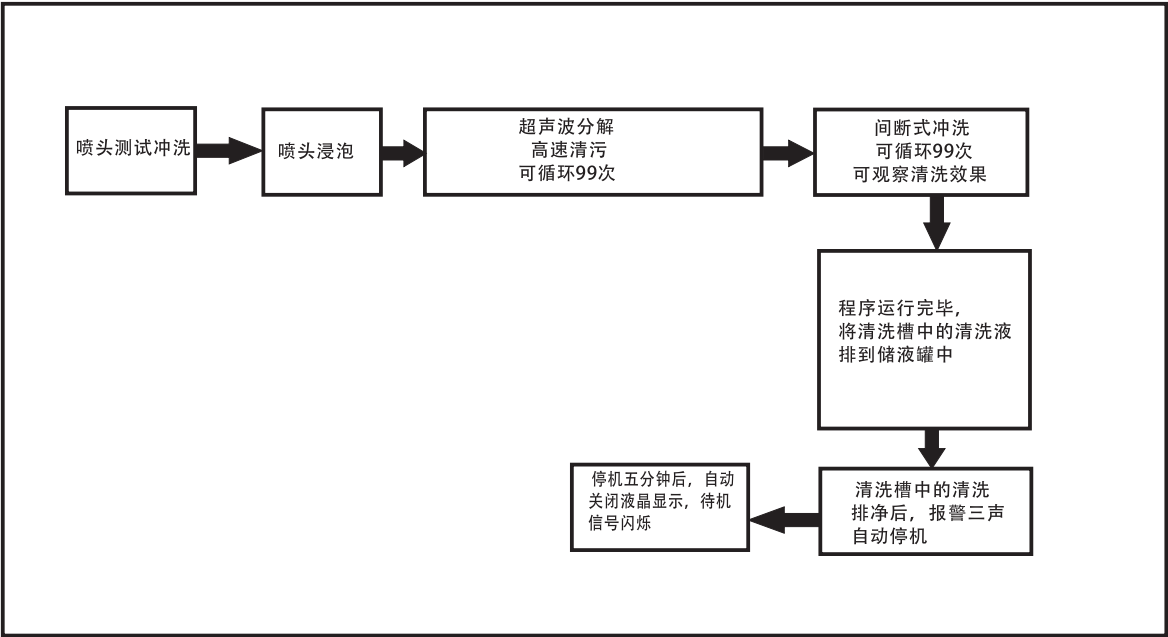
PULSE JET NOZZLE WASHER MANUAL

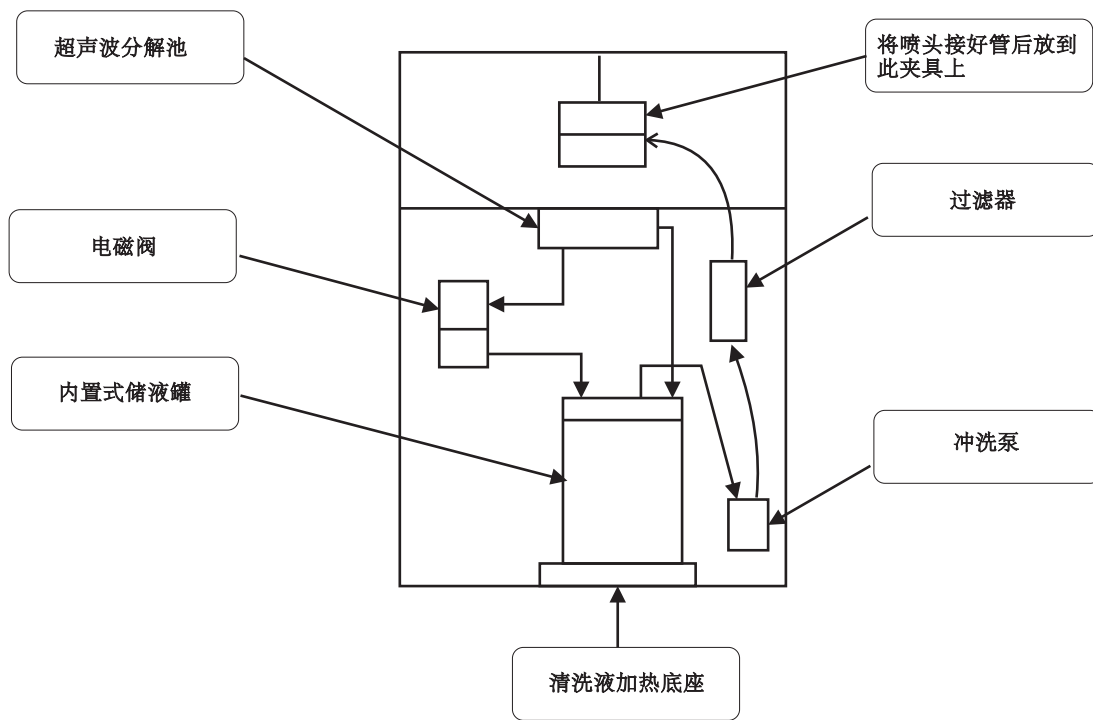
(MODEL NO.: JCPT-01)

高效全自动喷头清洗机使用说明书

高效全自动喷头清洗机，采用先进的液晶和液位控制技术来实现全自动工作。使用高效超声波来分解喷头堵塞物，并采用高速射流在超声波工作的同时对喷头中的堵塞物进行及时清理，从而达到最佳的疏通效果。是清洗，维修喷头的理想设备。

工作流程及原理：





技术参数:

电源: AC220V 50HZ

最大功率: 100W

清洗液罐容量: 1.5L

清洗液可加热温度: 40℃

适应喷头尺寸: 120MM (宽) 80MM (高) 30MM (厚) 以内的喷头。

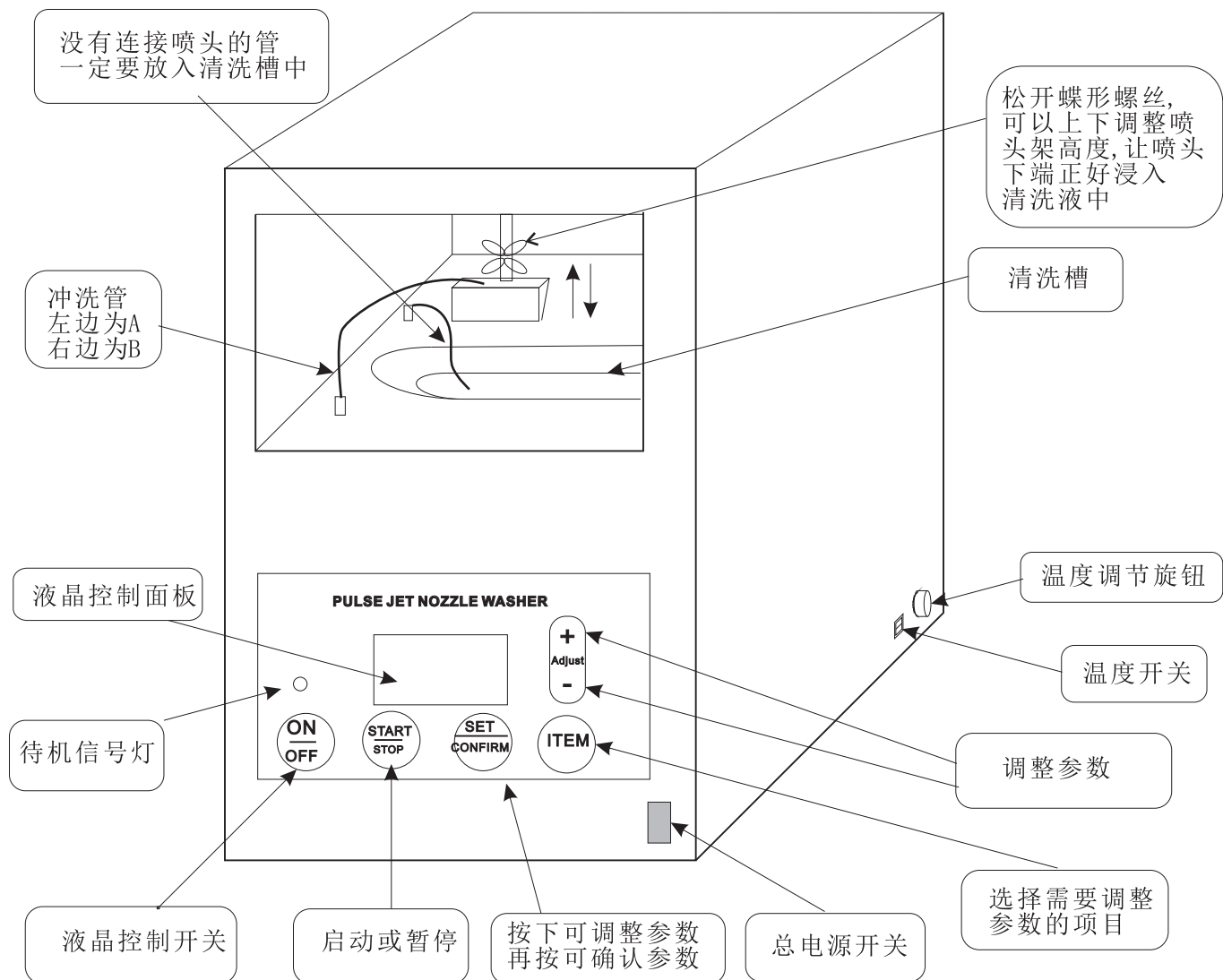
使用方法:

一、作业前的准备工作

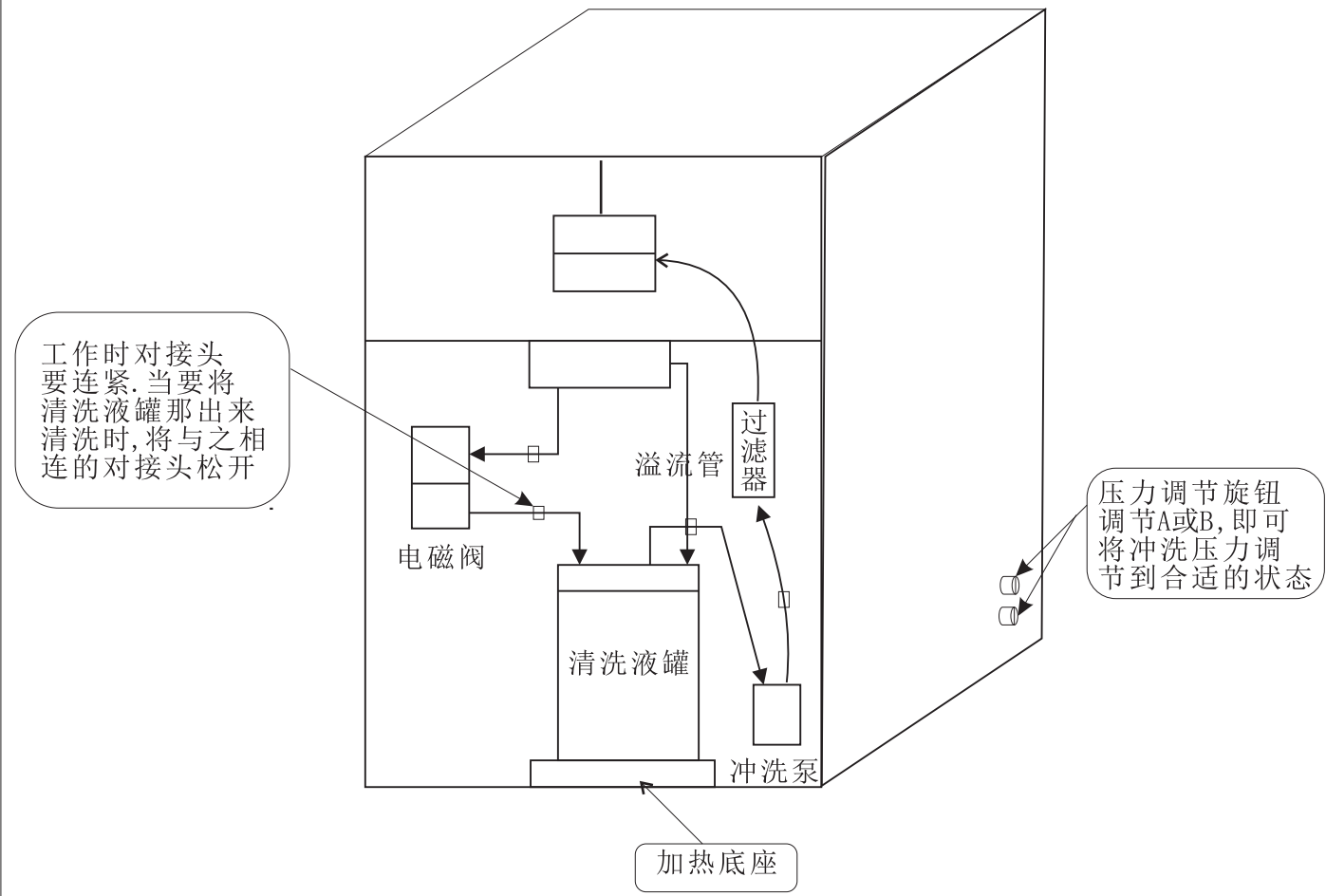
- 1、打开机箱后面的门，将清洗液罐上面的几根管子松开或拔出，松开罐子左右下端的搭扣，然后将罐拿出来。将罐清洗干净。
- 2、准备好约 1.5 升待清洗喷头适用的清洗液，倒入罐中，将盖子扣紧，然后将罐子放回机箱内，扣好左右下端的搭扣，然后将管全部接好。(特别注意: 各个管接头一定要可靠拧紧，以防清洗液渗漏!)
- 3、将喷头夹具取出，方法是: 左手拿住夹具，右手松开蝶形螺丝，即可轻轻取出喷头夹具。
- 4、将要清洗的喷头接好随机附送的接管 (接好后接管要自由向上)，然后将喷头贴紧靠放在夹具的下边，用四方的环形夹具套住喷头，拧紧后面的螺丝将喷头夹紧。为了保证清洗管不会脱落，要将管用夹具夹紧清洗管。然后，将放好喷头的夹具放回清洗机内上方的安装支架管上，调整好高度后锁紧，让喷嘴刚好处于清洗槽内距离工作台面约 2CM 处。(以清洗液刚好可以完全浸没喷嘴为准)
- 4、将喷头上的接管和清洗槽工作面板上的接管自然对接牢固。
- 5、将没有用到的接管小心放在清洗槽内，不得有任何空管放在清洗槽外，以免发生清洗液流出清洗槽之外的重大事故!

6、认真做好关键部件的例行检查：

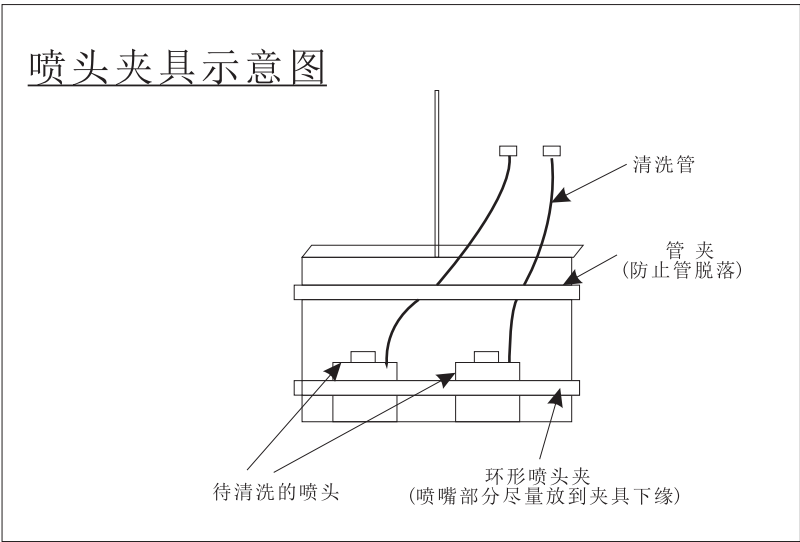
打开机箱后门，进行以下检查步骤：（1、过滤器及各种管接头要连接良好，不允许有任何松动现象。（2、查看有无其他异常情况



内部示意图



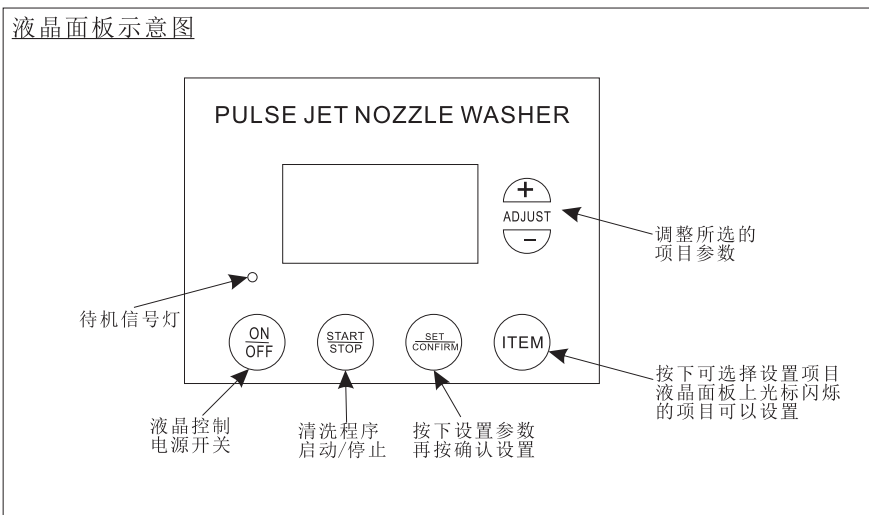
喷头夹具示意图



二、开机、设定各种参数及自动清洗喷头

打开电源开关, 机内的灯光立即工作。按下面板上的 **POWER** 键, 启动液晶控制面板, 即可设定各种参数, 方法如下:

- 1、按下 **SET** 键, 即进入设置状态。这时闪动的参数就是可以设置的, 按+ - 键, 就可以进行参数的调整。
- 2、当设置好一个参数, 按 **ITEM** 键, 可以选择另外一个需要设置的参数项目, 按+ - 键进行设置。
- 3、当设置好所有参数后, 再次按下 **SET** 键进行确认。参数设置即完成。如图:



- 4、按下 **START** 键，清洗机即按照设置的参数进行全自动工作。当全部运行完毕，即会自动报警停机。可视清洗的效果决定是否重新启动再次运行，或重新设置参数后再启动运行。（注：当清洗程序完成并自动停机后，清洗槽内的清洗液完全排除干净）
- 5、如果程序没有运行完毕就停机，清洗槽内的清洗液就不能排出。如果需要排干清洗液，可以人工排液，也可以再次开机运行，直到所有程序运行完毕。
- 6、当需要临时停机时，按下 **STOP** 键。再次按下即恢复未完的程序。
- 7、A.B 管的选择：左边为A泵出水管，右边为B泵出水管。如果喷头只有一个进墨口，可以同时清洗两个喷头，这时 A.B 泵可同时选择。如果只清洗一个喷头，则只选择A泵或 B 泵。如果喷头有两个进墨口，则每次只能清洗一个喷头。这时 A,B 泵可同时选择。如果是清洗小型的喷头，也可以只选择 A或B泵，用 Y型接头将冲洗管分开两路再与喷头的两个进墨口进行连接。
- 8、当清洗精工 510 等大型喷头时，由于所需的清洗液流量较大，可以A\B同时选择，然后用配备的Y型接头，将A、B管并为一体后接到喷头的进墨口。
- 9、调节压力旋钮A或B，将正在使用的泵的压力调到合适的压力。
- 10 超声波清洗次数的选择的一般建议：开始时一般只设为1次，然后视清洗效果来决定是否增加超声波的次数，慢慢增加，直到将喷头完全疏通。
- 11、特别注意：喷头只能冲洗，绝不能倒吸，否则极易使喷头报废！

三、储液罐的清洗

当使用一定时间后，储液瓶中会积聚一定的墨垢及渣滓，这时可以打开机箱后面的门，将清洗液罐上面的几根管子松开或拔出，松开罐子左右下端的搭扣，然后将罐拿出来。将罐清洗干净。

四、过滤器的更换

- 1、过滤器有轻微堵塞现象时就要立即更换（即出水量明显减小时）。

五、故障的排除：

- 1、清洗液不能排除干净：

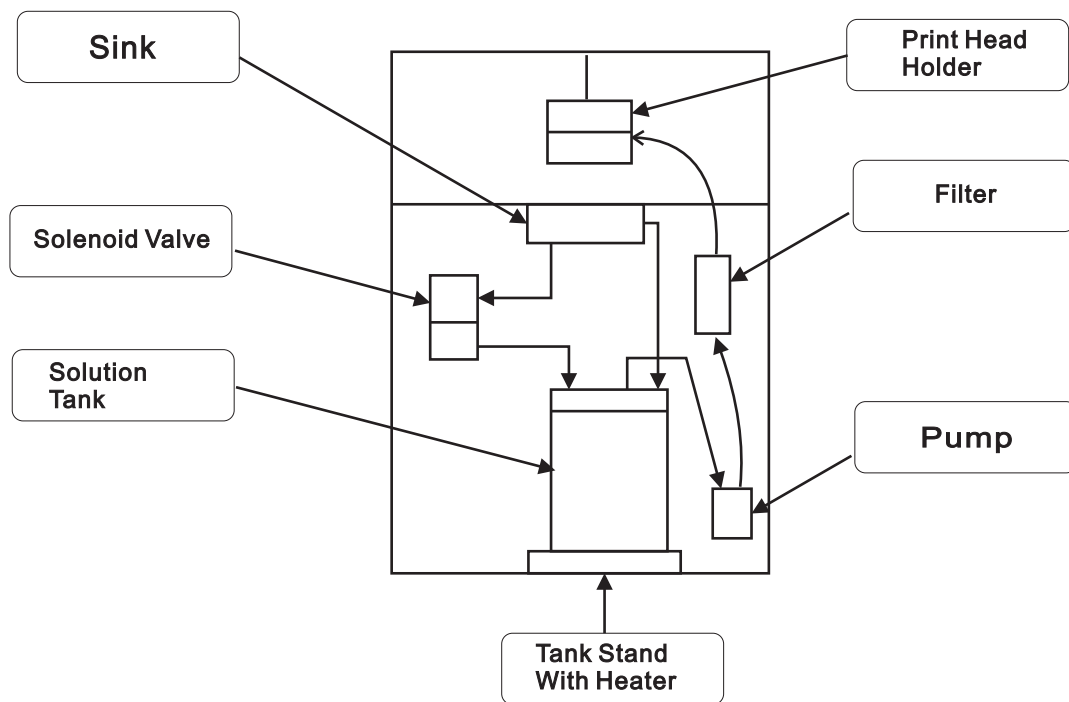
清洗结束停机，但清洗槽内的清洗液没有排出干净，说明电磁阀或者管路发生堵塞故障，这时可以拆下电磁阀进行清洗疏通。也可能是控制电磁阀的继电器松动，将继电器插紧即可。（继电器就在电磁阀旁边，与电磁阀在同一支架上）

- 2、泵的声音异常或出水量很小甚至不出水，说明相应的过滤器发生堵塞，这时要更换过滤器。

AUTOMATIC PULSE JET NOZZLE WASHER MANUAL

The automatic pulse-jet nozzle washer is created from latest LCD and hydraulic technology, allowing it to operate automatically with minimal manual input. Complete with the newest ultrasonic emitter, it can effectively pulverize clumps of ink molecules blocking the nozzle and cleanse it of its blockage. Due to its unique properties, it is the optimal device for nozzle maintenance.

WORKING PROCEDURES AND PRINCIPLE



TECHNICAL REFERENCES

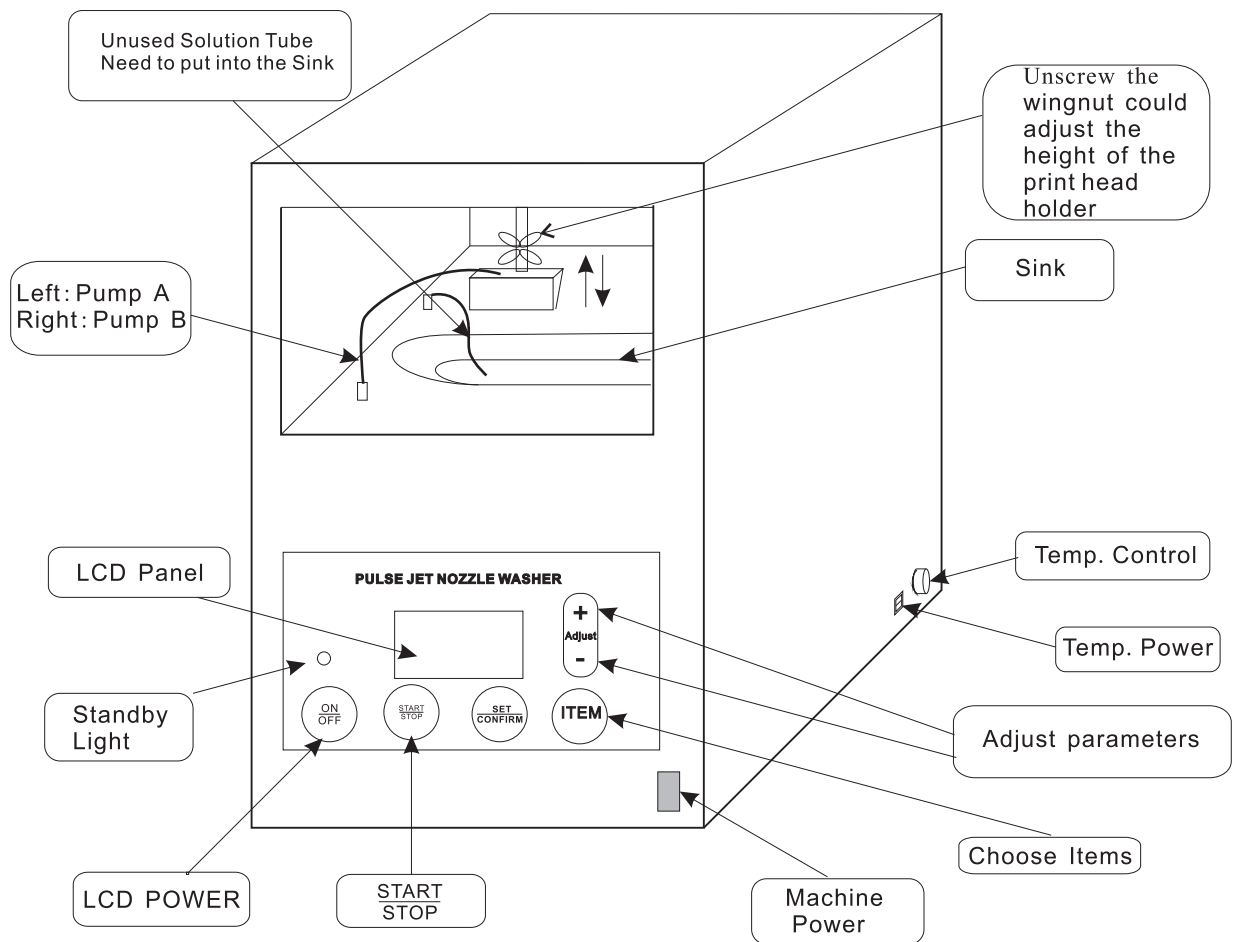
Power: AC220V 50HZ

Power consumption (maximum): 80W

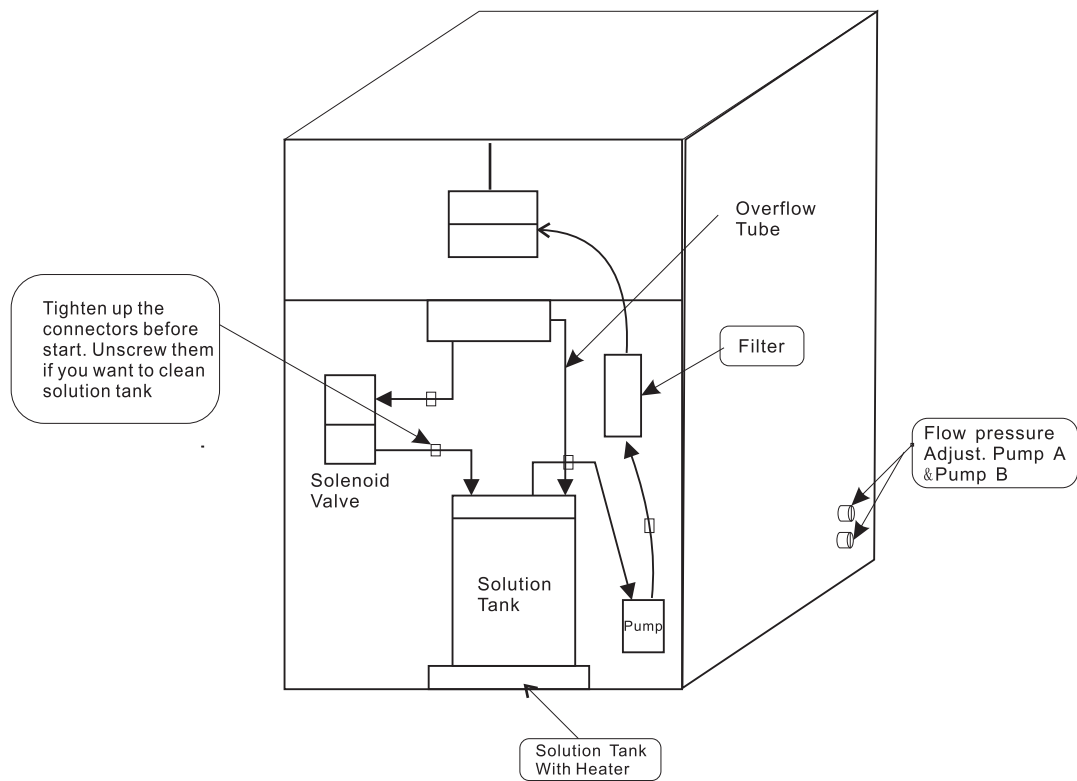
Solution tank capacity: 1.3L

Solution tank heating capacity: Up to 40 degrees Celsius

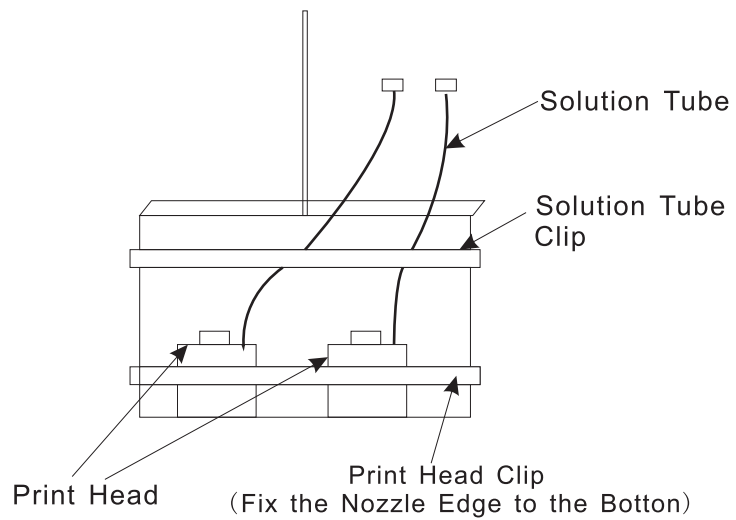
Acceptable nozzle dimensions: Anything below 120mm(width)*80mm(height)*30mm(thickness) can be cleaned with the standard clipper. Anything greater than the dimensions mentioned would require you to order customized clippers.



Schematic Diagram



Print Head Clipper




OPERATION PROCEDURE

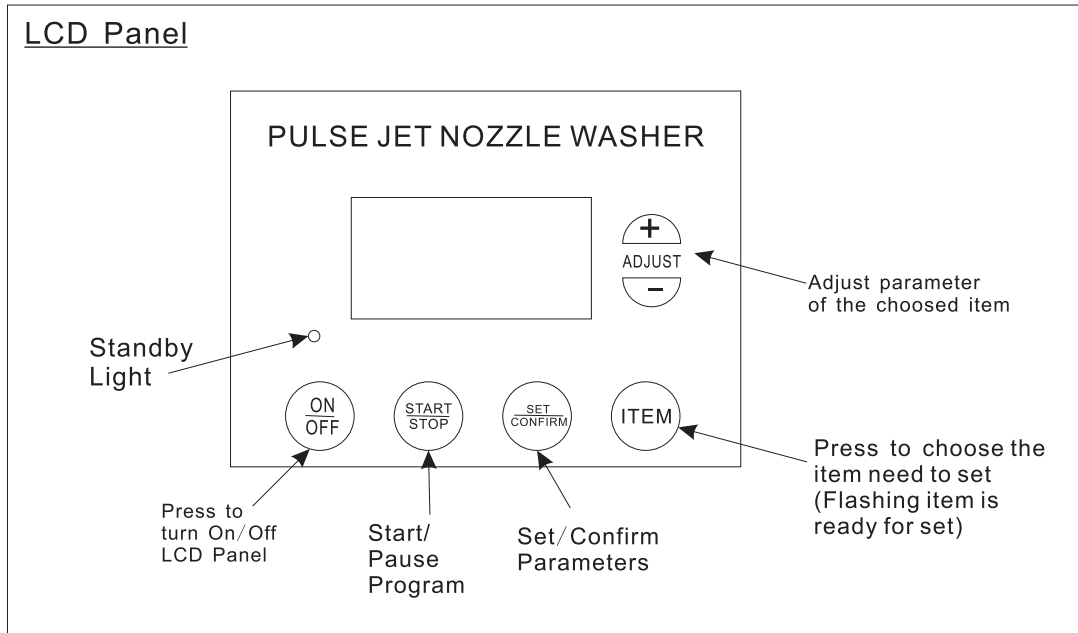
A) Preparation

- 1) Open the door in the back of this machine and make sure that the filters inside and all the tubes are connected properly. Make sure that nothing is loose. Prepare around 1.3L of clean solution suitable for the print head intend to clean and deposit it in the built-in solution tank (after making sure that the Solution tank is clean). Heat the solution by turning the heating system on which located on the left side of the machine.
- 2) Prepare the print head holder by holding it in one hand and taking off the screw on the holder stand with the remaining hand.
- 3) Connect the print head with the tubes from Pump A or B. Place the print head into the holder that it is held in place firmly. Put the holder back to the stand and adjust the height so that the nozzle is held under the solution (roughly 2cm from edge of the sink).
- 4) Place the unused tubes into the sink. WARNING: do NOT leave any tubes hanging around as it could lead to a major flood.
- 5) Turn the Flow Adjust Button to the Min. level.
- 6) Turn on the Temperature button and set the temperature to a suitable degree (Depend on local temperature. If the temperature is lower than 20 degrees Celsius, we suggest the users use this function).

B) Setting Parameters

Turn the power on. Press the LCD PANELPOWER which would activate the LCD screen and allow you to access the settings:

- 1) Press the  button, allowing you to go into the setting menu. The flashing item is the one which can be changed by pressing the “+” or the “-” signs.
- 2) After setting a property, press the ITEM key to select another one.
- 3) After changing all the desired properties, press the SET key again to confirm the changes.
- 4) Press the START/STOP key, which would make this machine operate according to the current settings.
- 5) The STOP key allows you to pause the device in its task. When pressed again, it allows it to resume its previous task.
- 6) How to Choose Pump: If the print head only have one ink feeding port, you could clean two print heads upon choose Pump A & Pump B. If the print head has two ink feeding ports, please use a "Y" connector to connect Pump A.
- 7) We suggest the user set Ultrasonic 5 times initially. Check the cleaning effect and increase the value if necessary.



C) Clean the Solution tank Regularly

After using for a certain period of time, the Solution tank would have accumulated a lot of waster, To clean the Tank, turn off the power, open the buckles, take out the tank and clean inside of it carefully. Please avoid liquid flow into bottom of the tank cause there have electric circuit inside.

D) Change Filters

We advise that the filters inside the machine are changed once every six months.

If it is used often, please change it incase a blockage occurs no matter how long that takes.




PROBLEM SHOOTING

- 1) If all cleaning program finished but the solution in the sink doesn't drained off totally, it means the SOLENOID VALVE is blocked. Disassemble the SOLENOID VALVE and clean it to solve this problem.
- 2) Filter - Crackling sounds and solution could not come out fluently, it means the filters are blocked. Please change new filters so solve this problem.
- 3) After turn on the machine, if there have no solution come out from the print head, please adjust the flow pressure botton.

使用步骤示意图

Operation process demonstration

仅供参考 (For reference only)

 <p>1</p>	<p>拿出玻璃门及资料袋 Remove the glass door and the accessories packet</p>	 <p>2</p>	<p>把玻璃门装好 Install the glass door</p>
 <p>3</p>	<p>松开夹具支架螺丝 Unscrew the Printhead Holders butterfly screw.</p>	 <p>4</p>	<p>取出喷头支架。松开螺丝，取出环形的喷头夹和清洗管夹 Remove the Print head holder. Unscrew the screws and take off the square printer head and solution tube clips.</p>
 <p>5</p>	<p>将资料袋打开，拿出合适的喷头清洗管，并把要清洗的喷头插好清洗管 Open the accessories packet, choose appropriate tube, and connect the tube to the desired print head in need</p>	 <p>6</p>	<p>把喷头放在夹具上，用方形固定环压紧。用管夹将清洗管适当夹紧，防止清洗管脱落。 Place the connected print head on the holder and fasten it with the rectangular clip. Clip solution tube as well using the Tube Clip.</p>
 <p>7</p>	<p>将装好喷头的夹具放回支架上，调到适当的高度并固定（以喷头的喷嘴部分能浸泡在清洗液中为准）。 Place the Print head holder back on the stand and adjust the height appropriately (The nozzle edge need to sink around 5mm</p>	 <p>8</p>	<p>将清洗管对接，并将没用到的清洗管放在清洗槽中！（禁止将清洗管放在清洗槽之外） Connect the tubes and place the unused tubes into the sink.</p>
 <p>9</p>	<p>将后面的门打开 Open the back door.</p>	 <p>10</p>	<p>将清洗液罐上的各种连接管松开，并将清洗液罐取出。 Disconnect the various tubes on the Solution Tank and remove it.</p>
 <p>11</p>	<p>将清洗液罐清洗干净。并倒满该种喷头常用的清洗液 Open and clean the solution tank, and inject with the corresponding cleaning solution.</p>	 <p>12</p>	<p>将盖子盖好扣紧，将清洗液罐放回底坐上并扣紧。将所有的管子都连接牢固。 Close and replace the solution tank. Reconnect the disconnected tubes</p>

 <p>13</p>	<p>打开电源开关 Turn on the main power.</p>	 <p>14</p>	<p>打开液晶开关 Turn on the LCD screen Power.</p>
 <p>15</p>	<p>调整各种参数 Adjust Parameters.</p>	 <p>16</p>	<p>确认参数 Confirm operation parameters</p>
 <p>17</p>	<p>参数设定好之后，就可以开机运行了。需要时也可以按此键暂停 Push Start to run this machine. Push Start again if you need Pause.</p>	 <p>18</p>	<p>等清洗液充满清洗槽之后，可再次调整喷头的高度，让喷嘴刚好能浸泡到清洗液中。After the solution filled the sink, please adjust the height of the print head again, keep the edge sink into the solution around 5mm depth.</p>
 <p>19</p>	<p>冬天时可打开温度开关，将温度条到 30 度左右 During the winter, set the temperature to around 30 degrees Celcius</p>	 <p>20</p>	<p>调整压力旋钮，可将 A、B 泵调整到合适的压力 Adjust the flow pressure for optimal pressure (Let the flow Just come out from the print head)</p>
 <p>21</p>	<p>过滤器若堵塞，请及时更换 Filter. Please replace if blockages are detected! (Example: No solution come out from the print head)</p>		

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