

ADT Model 927 Water Recycling System Installation manual supplement

Overview:




The ADT Model 927 Water Recycling System provides a closed-loop uniform supply of water, which is used for dicing machines.

The system recycles the saw drain water through a number of filters, cools the water to a set temperature, and delivers a steady flow of water to the dicing machine.

This installation document is a manual supplement to the full ADT 927 Operation and Maintenance Manual.



Installation Instructions

Step #	Picture	Step
1		<ul style="list-style-type: none"> • Remove all side covers from the machine (x8) - use the red 'T' red hex-key to unlock the covers <p>NOTE: put the covers on a cover stand to avoid scratches.</p>
2	<div style="display: flex; flex-direction: column; align-items: flex-start;"> <div style="margin-bottom: 10px;">  <p>Valve Open</p> </div> <div>  <p>Valve Close</p> </div> </div> <ul style="list-style-type: none"> ▪ Pump 1 (P1): <ul style="list-style-type: none"> ◆ In: open ◆ Out: open ▪ Pump 2 (P2): <ul style="list-style-type: none"> ◆ In: open ◆ Out: open ▪ Pump 3 (P3): <ul style="list-style-type: none"> ◆ In: open ◆ Out: open ▪ Filter 1 (F1) (pre-filter): <ul style="list-style-type: none"> ◆ In: open ◆ Out: open ◆ Manual drain: closed ▪ Filter 2 (F2) (slurry bag-filter): <ul style="list-style-type: none"> ◆ In: open ◆ To sink tank: open ◆ To external drain: closed 	<ul style="list-style-type: none"> • Make sure all valves at correct orientation

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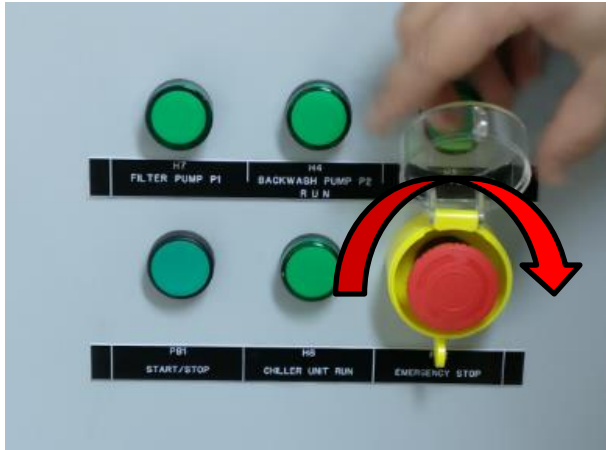


Note: Only authorized electrician need to perform this action

Note: notice that the machine voltage and frequency match the facility voltage and frequency (400V/50Hz or 208V/60Hz)

- Connect the 3-phase electricity cable to a plug
- Connect the plug to the electricity socket

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- Open the EMO transparent cover
- Rotate it Clockwise, so it will pop out

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- Push up the Main circuit breaker

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- Open the electricity box door, use the key to unlock it
- Open the front bottom facility door, use the 'T' red hex-key to unlock it

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- Press the Supply Pump P3 contactor for 1 second only
- Watch the P3 pump propeller, check if it rotating Clockwise, If **not** – ask the **authorized electrician** to switch between 2 phases at the electricity plug. Check again.

8		<ul style="list-style-type: none">• Close the front bottom door, use the 'T' red hex-key to lock it
9		<ul style="list-style-type: none">• Connect the air tube from the main air facility to the machine air inlet – use air pressure regulated between 6-8 Bar (87-116 PSI)

10		<ul style="list-style-type: none">• Connect the water tube from the 927 'Supply' outlet to the dicing machine Main water inlet
11		<ul style="list-style-type: none">• Connect the water tube from the 927 'Water Fill' inlet to the facility main water
12		<ul style="list-style-type: none">• Connect the water tube from the 927 'Drain' outlet to the facility main drain

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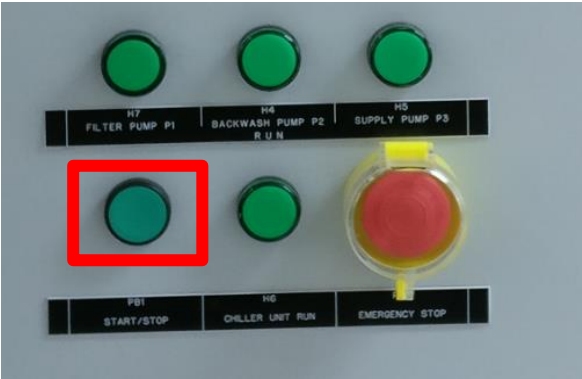


- Check all tubing and electricity facilities are well and correct connected




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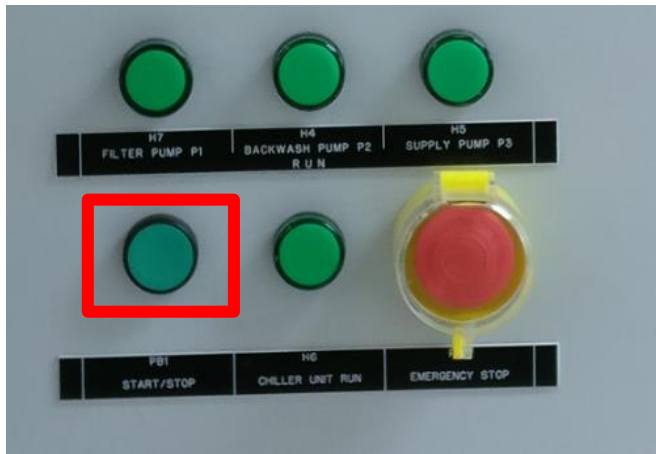
NOTE: At the first use of the machine, white foam will show up at the supply water, due to the new installed membrane and filters therefore for the first 20 minutes we will need to remove the foam from the 927 unit.

- Connect the water tube from the 927 'Supply' outlet to the factory facility main drain. **ONLY** for the first 20 minutes of machine running, after that reconnect the water tube from the 927 'Supply' outlet to the dicing machine Main water inlet



<p>15</p>		<ul style="list-style-type: none"> Press the 'Run/stop' button, the machine will start to fill water from the main water facility
<p>16</p>		<ul style="list-style-type: none"> Press button '3' for 3 consecutive seconds, it will disable the supply pump
<p>17</p>		<ul style="list-style-type: none"> When the filtration pump is working (see indicator lamp P1) Use an open-end wrench #13 to bleed air from P1 pump When water start to burst from the pump, close the screw

18	 <p>The image shows the control panel of the dicing machine. The display shows 'FILTER 0 L/m' and 'SUPPLY 6 L/m'. The '3' button on the numeric keypad is circled in red.</p>	<ul style="list-style-type: none"> When the water level at the supply water tank (top tank) is reaching to the 2nd water level float, press again button '3' for 3 consecutive seconds, it will enable the supply pump
19	 <p>The image shows a close-up of the P3 pump. A red circle highlights a screw on the pump housing.</p>	<ul style="list-style-type: none"> When the Supply pump is working (see indicator lamp P3) Use an open-end wrench #13 to bleed air from P3 pump When water start to burst from the pump, close the screw
20	 <p>The image shows a close-up of the pressure relieve valve, which is a white plastic component with a black handle.</p>	<ul style="list-style-type: none"> Adjust the pressure relieve valve, so the supply flow rate will be minimum 5 L/m while dicing machine is not consuming any water

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- After 20 minutes while the supply water flowing to the drain, check if all the foam is removed from the supply water tank
- Press the 'Run/Stop' button, the machine will enter to standby mode
- Connect the water tube from the 927 'Supply' outlet to the dicing machine Main water inlet
- Press the 'Run/Standby' button, the machine will run

<p>22</p>		<ul style="list-style-type: none"> • Press button #2 (notice that filtration pump P1 is on, see indicator lamp) – it will activate the backwash mode
<p>23</p>		<ul style="list-style-type: none"> • When the backwash pump is working (see indicator lamp P2) • Use an open-end wrench #13 to bleed air from P2 pump • When water start to burst from the pump, close the screw

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- Return all side covers to the machine (x8) - use the red 'T' hex-key to lock them