



Vacuum Plumbing Systems

13818 Oaks Avenue ♦ Chino, CA 91710 ♦ USA

(800) 591-9920 ♦ 909-902-1141 ♦ Fax 909-902-5041

www.acornvac.com - email: info@acornvac.com

AcornVac Vacuum Plumbing Systems - Trouble Shooting Guide

1. Accumulators

Problem	Correction
Accumulator is overflowing	<p>1. Push and hold the manual activation button on the Controller Hold the button long enough to ensure that all waste is cleared from the Accumulator.</p> <p>This should return the Accumulator to normal operation.</p>
If Accumulator continues to overflow	<p>2. Check the following:</p> <p>a. Make sure sensor line from the Accumulator to the Controller is securely attached to the Accumulator and the Controller. Reconnect if loose.</p> <p>NOTE: Any time the sensor line is disconnected from the Accumulator, ensure that the Accumulator is emptied by pressing the manual reset button on the Controller and holding for a period of time sufficient to clear the Accumulator of any collected waste, before returning to normal operation.</p> <p>Failure to empty the Accumulator will reset the effective head pressure for Controller activation of the Extraction valve, and could create an overflow at the Accumulator.</p> <p>b. Check to ensure that sensor line is not pinched or cracked, and that sensor line has a natural slope back to the Accumulator, preventing any water from becoming trapped in the sensor line. Repair or adjust as required.</p> <p>c. Check sensor line for obstructions by disconnecting sensor line from Controller and blowing through line to clear line of any trapped water or debris.</p>



	<p>d. Check for accumulated debris or buildup within the accumulator.</p> <p>If visual inspection is not possible, flush with hot water by filling and manually activating the extraction valve.</p> <p>If it is not possible to fill and manually activate valve, then follow step 5 and replace the accumulator.</p> <p>e. Manually activate the Controller to clear the Accumulator by pushing the manual reset button on the Controller and holding it for a period of time sufficient to ensure the Accumulator is emptied.</p> <p>This should return the Accumulator to normal operation.</p>
<p>If Accumulator continues to overflow</p>	<p>3. Check for sufficient vacuum pressure at the Vacuum Center. If vacuum pressure is not sufficient, an alarm will be reported at the Vacuum Center, and corrections should be made to ensure that vacuum pressures are restored to sufficient levels. Refer to Low Vacuum.</p> <p>After ensuring sufficient vacuum pressures, reset Controller by manually activating Controller and holding it for a period of time sufficient to ensure that the Accumulator is empty.</p> <p>This should return the Accumulator to normal operation.</p>



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<p>If Accumulator continues to overflow</p>	<p>4. Replace Controller. Tag old Controller with store name, date, brief description of problem and case location. Contact AcornVac Customer Service at 800-591-9920.</p> <p>a. Manually activate the new Controller to clear the Accumulator by pushing the manual reset button on the Controller and holding it for a period of time sufficient to ensure that the Accumulator is emptied.</p> <p>This should return the Accumulator to normal operation.</p>
<p>If Accumulator continues to overflow</p>	<p>5. Replace Accumulator. Tag old Accumulator with store name, date, brief description of problem and case location. Contact AcornVac Customer Service at 800-591-9920.</p> <p>a. Manually activate the Controller to clear the sensor line by pushing the manual reset button on the Controller and holding it for a few seconds to ensure that the sensor line is clear.</p> <p>This should return the Accumulator to normal operation.</p>



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2. Extraction Valve

Problem	Correction
Extraction Valve is stuck in open position, or fails to close.	<p>1. Reset Extraction Valve by pushing manual reset button on Controller. Hold for a few seconds and release.</p> <p>This should return valve to normal operation.</p>
If Extraction Valve fails to close	<p>2. Disconnect vacuum line from Controller to Extraction Valve.</p> <p>This should allow the Extraction Valve to close.</p> <p>a. Check vacuum line to ensure that it is not pinched and there are no cracks. Adjust or replace as required.</p> <p>b. Manually activate the Extraction Valve by pushing manual reset button on Controller and hold open for a few seconds before releasing.</p> <p>This should return the Extraction Valve to normal operation.</p>
If Extraction Valve fails to close or operate normally	<p>3. Replace Controller. Tag old Controller with store name, date, brief description of problem and case location. Contact AcornVac Customer Service at 800-591-9920.</p> <p>a. Manually activate the new Controller by pushing the manual reset button on the Controller and holding it for a few seconds.</p> <p>This should return the Extraction Valve to normal operation.</p>



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2. Extraction Valve – continued Problem

Correction

If Extraction Valve fails to close or operate normally	<ol style="list-style-type: none">4. Replace Extraction Valve. Tag old Valve with store name, date, brief description of problem and case location. Contact AcornVac Customer Service at 800-591-9920.<ol style="list-style-type: none">a. Manually activate the new Extraction Valve by pushing the manual reset button on the Controller and holding it for a few seconds. <p>New Extraction Valve should follow normal operation.</p>
Extraction Valve fails to open or operate	<ol style="list-style-type: none">1. Push and hold the manual activation button on the Controller. Hold the button long enough to activate the valve.2. If valve opens, then refer back to Accumulator trouble-shooting details for correction.
If Extraction Valve fails to open with manual activation	<ol style="list-style-type: none">3. Check for low or no vacuum, using the following sequence:<ol style="list-style-type: none">a. Check vacuum source line from end to end. One end will be at Controller and the other will be attached to the piping network in some fashion - either at the outlet of the Extraction Valve, to a spooler or to a Swing Check, depending on installation.b. If vacuum is not present, make sure that vacuum source line is not pinched, cracked or disconnected. Make adjustments as required.



	<ul style="list-style-type: none">c. Also inspect in line mini check valve for proper installation. If check valve is improperly installed, remove and re-install. If check valve is installed correctly, but is not working properly, replace valve.d. Once vacuum is present, manually activate the Valve by pushing the manual reset button on the Controller.e. This should return the Valve to normal operation.
<p>If valve fails to open or operate normally with vacuum present, without problems at Accumulator or in line mini check valve</p>	<ul style="list-style-type: none">5. Replace Controller. Tag old Controller with store name, date, brief description of problem and case location. Contact AcornVac Customer Service at 800-591-9920.a. Manually activate the new Controller and Extraction Valve by pushing the manual reset button on the Controller and holding it for a few seconds. <p>This should return the Extraction Valve to normal operation.</p>
<p>Lift is flooded with water</p>	<ul style="list-style-type: none">1. Manually activate the Extraction Valve by pushing the manual reset button on the Controller and holding it to ensure that valve remains open long enough to clear water from vertical piping.2. If unable to clear the lift by manual activation of the valve, then loosen the rubber band seal coupling at the Extraction Valve, and allow water in lift to spill onto floor. Re-install coupling and tighten. Repeat manual activation of the Extraction Valve. <p>Contact AcornVac Customer Service at 800-591-9920.</p>



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6. Low Vacuum Alarms

<p>Low Vacuum Alarm Active at Vac Center</p>	<ol style="list-style-type: none">1. Shut the tank inlet valves to verify that there are no leaks at the Vacuum Center. With inlet valves shut, vacuum levels should return to 18-26" Hg.<ol style="list-style-type: none">a. If vacuum increases to 18-26" Hg, slowly open the inlet valves. Verify that vacuum pressure drops and returns to low vacuum condition. Follow recommendations in item #2 to identify cause and repair.b. If vacuum does not increase to 18-26" Hg with isolation valves shut off, see item #3 to identify cause and repair.c. If vacuum increases to 18-26" Hg and remains at stable pressure with inlet valves open, system has returned to normal operating condition, and no further trouble-shooting is required.
<p>Low Vacuum that returns to normal with inlet valves shut off, then drops when inlet valves are opened</p>	<ol style="list-style-type: none">2. Trace piping back from Vacuum Center through isolated main lines, to individual valves to determine the cause of low vacuum condition. Possible causes include:<ol style="list-style-type: none">a. Extraction Valve stuck open due to debris caught in valve. Remove valve to remove debris.b. Extraction Valve tubular diaphragm is damaged, causing leak. Remove and replace Extraction Valve.c. Pipe joint is broken or vacuum piping is damaged. Repair pipe or fittings; determine cause of damage, example: lack of proper



	<p>bracing and correct to ensure prevention of future problems.</p> <p>d. Extraction Valve is continuously cycling, due to a blockage in the lift or on the sensor port from the Accumulator. Remove blockage and correct to prevent future problems.</p>
<p>Low vacuum that does not return to normal when inlet valves are shut off:</p>	<p>3. Low vacuum may be due to the following possible causes:</p> <p>a. Vacuum pumps fail to run. Verify by checking for pump fail to run alarm at Vacuum Center Control Panel. Contact AcornVac Customer Service at 800-591-9920.</p> <p>b. Piping at the Vacuum Center is leaking due to damage. Repair piping as required.</p> <p>c. Collection tank discharge or valve(s) are leaking. Disassemble check valve and clean seat; replace flapper if necessary.</p> <p>d. Collection tank vent valve has failed in open position. Verify failure through continuity check of solenoid; repair or replace as necessary.</p>