

# Steady Stream™

Automated / In-Line / Programmable Timer

IN-LINE A/C DRAIN PUMP



Model S100

## INSTALLATION MANUAL

PATENT PENDING

This product is intended for residential and commercial purposes

**ONLY TO BE USED WITH GRAVITY FED CONDENSATION DRAIN LINES**

with a diameter of 3/4 inch, it will clear up to a 10 inch P-trap (drain line lift) on a 40 foot drain line.

If you have questions or issues with the operation of Steady Stream,  
please contact customer service at:

Website: [www.steadystreamac.com](http://www.steadystreamac.com) / Email: [info@steadystreamac.com](mailto:info@steadystreamac.com)

**1 (800) 463-1406**

Scan for Installation Video:



SAVE THIS MANUAL FOR FUTURE REFERENCE

## Thank you for purchasing a Steady Stream In-Line A/C Drain Pump!

Steady Stream pump (also referred to as unit/product) is a preventative maintenance product that automatically clears the A/C condensation drain lines of debris and clogs. Step by step instructions provide for a quick install by a licensed A/C technician.

The in-line pump design creates strong suction and discharge pressure that prevents and eliminates clogs to ensure condensation flows freely through the drain line. Using the Tuya Smart App, set up a schedule for the pump to run two minutes once a week. If a clog occurs in the condensation drain line, the water level sensor will activate and turn on the pump until the obstruction is removed or for a duration of two minutes.

## SAFETY

When using Steady Stream basic safety precautions should always be followed, including the following:



### WARNING

1. Product is intended to be used as a device that simultaneously suctions and discharges the HVAC condensation drain line that connects the air-conditioning unit to the exterior of the structure (intended for residential use). Do not use the unit in a manner that is contradictory or outside the scope of the intended use or purpose.
2. Do not plug in the pump until you have read the installation instructions in their entirety.
3. Never attempt to operate the unit with missing or malfunctioning components, this could cause unsafe or hazardous conditions resulting in serious injury or death.
4. Do not flush the drain line with corrosive chemicals such as bleach. Environmentally friendly cleaners are allowed.
5. Do not insert any object into the pump, for any reason, while it is plugged in.
6. Replace the unit if there is damage or it has stopped working.
7. Do not install this product
  - on exterior air handlers; only for interior air handlers located in a building, home, garage or attic.
  - in conjunction with any other pumps or other drain line clearing products/systems.
8. Do not program the unit timer to run longer than two minutes per day.
9. Do not operate the unit with a damaged cord or pump.
10. Always unplug the unit when servicing.
11. If the unit malfunctions or ceases to operate according to the specifications stated within this manual, do not attempt to repair the unit yourself, contact customer service for assistance.



### CAUTION

1. Keep hair, jewelry, loose clothing and all body parts away from moving components including the pump suction and discharge pipes.
2. Keep children away from the unit, it is not a toy. Do not allow children to play with or handle any component parts and packaging material in the box as these can serve as a choking hazard.

## PRODUCT FEATURES

1. Timer instructions
2. Control box
3. WiFi buttons
4. Pump
5. End cap flapper
6. Water level sensor
7. Measuring template
8. Tee
9. Spigot x male adapter
10. Male adapter (2pcs)
11. Union (2 pcs)
12. 90 degree elbow (3 pcs)
13. 3/4 inch PVC pipe
14. Safety cable



# INSTALLATION

Read all of the installation instructions before beginning. **This product must only be installed on gravity fed condensation drain lines.** Prior to installation the condensation drain line and air handler drain pan must be professionally cleaned ensuring all blockages/debris have been removed. The condensation drain line must be a closed line from the outside drain pipe to inside the air handler. All vents and cleanouts must have a cap on them, ensuring the only drain line openings are inside the air handler and outside the home/structure. It is recommended to test the pump every six (6) months to ensure proper functionality.



## CAUTION

1. Adhere to state/local laws and ordinances when installing unit.
2. Do NOT connect the pump to the power source (outlet or extension cord) until installation is complete.
3. Loss of electricity will result in the unit not turning on. Once power is restored there is no need to reset the timer due to its internal battery.
4. Do NOT install this pump in conjunction with any other pump.

## TOOLS NEEDED



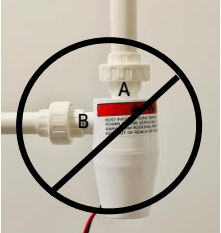

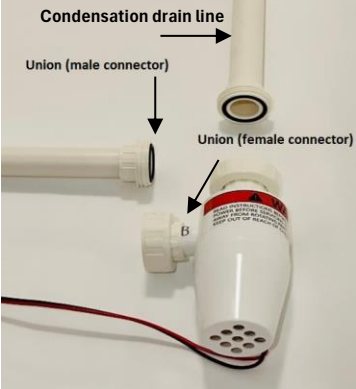
PVC Pipe Cutter or Saw




Pencil

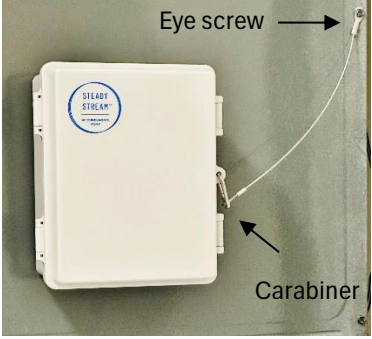

Tape Measure

PVC Primer & Cement

Teflon Tape

<p>Step 1</p>	<ul style="list-style-type: none"> <li>• Locate the thermostat and turn the mode to Off.</li> <li>• Next, locate both the air handler and condensation drain line (connected to the air handler).</li> </ul>
<p>Step 2</p>	<ul style="list-style-type: none"> <li>• Professionally clean both the condensation drain line and air handler drain pan ensuring all blockages/debris have been removed.</li> <li>• The condensation drain line must be a closed system, meaning all vents must be capped and the only two openings must be where the line enters the air handler and where the line exits the home/building.</li> <li>• Determine the pump installation position. Pump can be installed either horizontal or vertical, with one exception (do not install the pump with the A label facing upward - see picture).</li> <li>• Dry fit the pump, check the area to ensure you have enough space to clear obstacles (ex. walls, doors, A/C filter door flap).</li> </ul> 
<p>Step 3</p>	<p>For a 90-degree corner installation use the included measuring template along with the two unions.</p> <p>For other orientations the measuring template is not necessary; use the three included 90 degree elbows along with the two unions.</p> <ul style="list-style-type: none"> <li>• Hold the measuring template inside the 90-degree elbow (this section will be replaced with the pump). <ul style="list-style-type: none"> <li>- Letter A must point towards air handler (condensation drain pipe going into air handler).</li> <li>- Letter B must point away from air handler (condensation drain pipe going away from air handler).</li> </ul> </li> <li>• Use a pencil to mark the two lines on the PVC pipe at the top and bottom of the measuring template.</li> </ul> 
<p>Step 4</p>	<ul style="list-style-type: none"> <li>• Cut out the 90-degree corner at the lines marked.</li> <li>• Unscrew the two unions and place the female connectors onto the A and B pipes on the pump.</li> <li>• Attach the male connectors onto the condensation drain line pipes.</li> <li>• Dry fit the pump to confirm you have clearance.</li> </ul> 

<p>Step 5</p>	<p>Apply the PVC primer to:</p> <ul style="list-style-type: none"> <li>• inside male and female parts of the unions,</li> <li>• outside of the letter A and B pump pipes,</li> <li>• two condensation drain line pipes.</li> </ul> <p>Follow the directions on the PVC primer container to ensure adequate coverage.</p>	
<p>Step 6</p>	<p>PVC cement is used to glue the union parts onto the pump and condensation pipes. Read and follow the PVC cement directions on the label of the container.</p> <ul style="list-style-type: none"> <li>• Apply the PVC cement to the inside of the union and outside of the pipe that the union will be attached to.</li> <li>• Push the two parts together until they reach the stopper.</li> <li>• Hold for at least 30 seconds; any less the pipe could pop back out.</li> <li>• Repeat these steps for the remaining three union pieces and pipes.</li> </ul> <p>Female connectors should be attached to the pump pipes and male connectors to the condensation drain lines.</p>	
<p>Step 7</p>	<p><b>ATTENTION: Do not plug in the control box until the unit is completely installed.</b></p> <ul style="list-style-type: none"> <li>• Holding only the front edges of the control box place it onto the air handler. Be sure your hands and fingers are not touching the back of the control box where the magnets are located as there will be a strong pull as it latches onto the air handler.</li> <li>• Install the pump connecting the pipe labeled A to the pipe going towards the air handler.</li> <li>• Connect the pipe labeled B to the pipe going away from the air handler.</li> <li>• Hand tighten the two unions connecting the pump to the condensation drain line.</li> <li>• Insulate the pump when installing in an unconditioned space to prevent sweating. Do not insulate over the air holes on the bottom of the pump.</li> </ul>	
<p>Step 8</p>	<p>Identify whether or not your air handler has a safety float switch. If yes, it will be a direct or indirect connection.</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div data-bbox="240 1203 639 1444">  <p style="text-align: center;">Direct Connection</p> </div> <div data-bbox="701 1203 1073 1444">  <p style="text-align: center;">Indirect Connection</p> </div> </div> <p><b>Direct Connection</b></p> <p><b>ATTENTION: Water level sensor must be level with or slightly above the air handler hole it is connected to.</b></p> <ul style="list-style-type: none"> <li>• Remove the safety float switch housing from its adapter on the air handler by pulling it away from the adapter.</li> <li>• Apply Teflon tape to the Steady Stream water level sensor male threaded adapter.</li> <li>• Hand tighten the male threaded adapter into the threaded tee until the fitting will not turn any more.</li> <li>• Firmly push the Steady Stream water level sensor onto the slip end of the adapter. Be sure the water level sensor is vertical with the wires coming out of the top facing upward.</li> <li>• Firmly push the tee onto the adapter attached to the air handler.</li> <li>• Use a small piece of 3/4 inch PVC pipe (minimum 1.5 inches) as a joiner to be pushed firmly into the slip end of the tee and into the slip end of the existing safety float switch. Be sure the safety float switch is vertical with the wires coming out of the top of it facing upward like in the pictures above.</li> </ul>	

	<p><b>Indirect Connection</b></p> <p><b>ATTENTION: Water level sensor must be level with or slightly above the air handler hole it is connected to.</b></p> <ul style="list-style-type: none"> <li>• Use the tee along with the Steady Stream water level sensor adapter.</li> <li>• Apply Teflon tape to the threaded adapter and hand tighten the adapter into the tee.</li> <li>• Firmly push the Steady Stream water level sensor onto the slip adapter that was just screwed into the tee. Be sure the water level sensor is vertical with the wires coming out of the top facing upward.</li> <li>• Holding the tee move it left and right along the pipe connected to the existing safety float switch to find the location where nothing will interfere with the tee and the Steady Stream water level sensor.</li> <li>• Use a pencil to mark the two ends of the tee onto the pipe as you hold the tee in line with the pipe.</li> <li>• Use a tape measure to find the center of the two marks you just made and mark the center with the pencil.</li> <li>• Cut the pipe on the center line only.</li> <li>• Firmly push the tee onto the cut pipe connected to the air handler.</li> <li>• Firmly push the pipe with the existing safety float switch into the tee, make sure it is vertical with the wires coming out of the top of it facing upward.</li> </ul> <p><b>Air Handler WITHOUT Safety Float Switch</b></p> <ul style="list-style-type: none"> <li>• Remove the plug from the air handler by unscrewing it counter clockwise.</li> <li>• Apply Teflon tape on the male threaded adapter and hand tighten it into the plug hole.</li> <li>• Firmly push the water level sensor onto the adapter, make sure it is vertical with the wires coming out of the top of it facing upward.</li> </ul>
<p>Step 9</p>	<ul style="list-style-type: none"> <li>• Attach the safety cable to the control box by clipping the carabiner through the control box locking hole.</li> <li>• Remove the control box from the air handler, turn it over so the magnets face outward, hold onto the safety cable eye screw and allow the control box to hang freely.</li> <li>• Move the eye screw to different screw locations to find the screw that will not allow the hanging control box to damage or touch other components. Any one of the panel screws may be used as long as the safety cable is positioned so the control box cannot damage anything if it falls.</li> <li>• Use tool to remove the selected screw from the panel. Insert the screw through the eye screw on the safety cable and reinstall the screw.</li> </ul> 
<p>Step 10</p>	<ul style="list-style-type: none"> <li>• Plug the control box into an outlet, extension cord or hardwire it to power source.</li> <li>• Return to the thermostat and turn the mode to On.</li> </ul>
<p>Step 11</p>	<ul style="list-style-type: none"> <li>• Locate the condensation drain line outlet on the outside of the home or structure.</li> <li>• Ensure the drain line is horizontal and if not use a 90-degree elbow and a short piece of 3/4" PVC pipe to make the drain line horizontal.</li> <li>• If there is a 90 degree elbow on the end of the horizontal drain line, remove it and replace it with the end cap flapper.</li> <li>• Do not glue the end cap flapper onto the pipe, firmly push it onto the pipe while holding the pipe with your other hand until it is snug. Do not use tools or apply too much force when pushing the end cap flapper onto the pipe.</li> <li>• End cap flapper must be installed with the flapper closed and the hinge facing upward.</li> </ul> 
<p>Step 12</p>	<ul style="list-style-type: none"> <li>• Provide the client with the Timer Instructions card and inform them to follow the step by step directions to set up the device timer. The Timer Instructions are also located on the inside of the control box.</li> </ul>

# MAINTENANCE

Maintenance and adjustment (other than those listed in this manual) should be performed by qualified service personnel.

To assure proper functionality test the pump every six (6) months. This is a two part test.

1. Test the timer.

Open the Tuya Smart app on your smart phone or tablet, click on the device and click the OFF button to turn on the pump. Once you have verified the pump is on, click the ON button and verify the pump has turned off. If you allow the pump to run longer, it should run for two minutes and turn off. After the pump has turned off, click the ON button so the button now reads OFF.

2. Test the Steady Stream water level sensor.

Hold the housing with one hand while pulling the sensor up and out of the housing. Tip the sensor upside down, the motor will turn on. Flip the sensor upright and the motor should immediately turn off. Firmly push the sensor back into the housing. Make sure the Steady Stream water level sensor is level with or slightly above the air handler hole it is connected to.

# TROUBLESHOOTING

If the pump continues to run after going through all of the solutions below then unplug the control box from the outlet or extension cord and contact customer service at phone: 1 (800) 463-1406 or email: info@steadystreamac.com.

## Inquiry #1

- A. Pump turns on multiple times each week.
- B. Pump stays on longer than the standard two minute cycle or runs continuously without stopping.
- C. Drain pan overflows.

### **Explanation**

- The timer schedule may be set to run multiple days or times per week.
- The condensation line and/or drain pan may have a clog or partial clog.
- The pipe the Steady Stream water level sensor is connected to may be angled too low, not allowing water to flow out of it and back into the drain pan.

### **Potential Solution**

- Check the timer schedule to see what days and times are set up to run the pump.
- Check to verify the Inching on the Tuya Smart app is set to 2 minutes 0 seconds and enabled.
- Check the Steady Stream water level sensor to make sure the float is not stuck.
- Confirm the Steady Stream water level sensor is level with or slightly higher than the air handler drain hole it is connected to. Water entering the Steady Stream water level sensor must be able to flow back into the air handler on its own; if it's lower than the drain hole the water will not flow back into the drain pan and the pump will not turn on with the timer or if another clog occurs.
- Clean both the condensation drain line and the air handler drain pan.

## Inquiry #2

- A. Pump doesn't run on the scheduled day and time.
- B. Pump is not running when set to ON.

### **Explanation**

- The Tuya Smart app timer schedule may have been deleted, changed or the timer schedule is set to OFF.
- The Wi-Fi network may be down.

### **Potential Solution**

- Confirm the control box is plugged into an outlet; if plugged into an extension cord then verify the cord is plugged into an outlet and if it's hardwired be sure the breaker didn't trip off.
- Check that the outlet has power. If the outlet has no power a GFCI outlet or breaker in the electrical panel may have tripped. Be aware a GFCI outlet may be located in a variety of rooms (ex. bathroom, kitchen or garage).
- Confirm the Wi-Fi network is online and working correctly.

# LIMITED WARRANTY

**ATTENTION: Power cord plug can be eliminated when the unit is hardwired to a power source, this action will not void the warranty.**

Steady Stream Limited Warranty is subject to change, the latest version is available at [www.steadystreamac.com](http://www.steadystreamac.com).

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS WHICH MAY VARY FROM STATE TO STATE. A/C PRODUCT SOLUTIONS LLC RESPONSIBILITY FOR DEFECTS IN MATERIAL AND WORKMANSHIP SHALL BE LIMITED TO REPAIR AND/OR REPLACEMENT AS SET FORTH IN THIS WARRANTY. ALL EXPRESS AND IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES AND WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.

WE DO NOT ACCEPT LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR ANY THIRD-PARTY CLAIMS FOR DAMAGES AGAINST THE RETAIL PURCHASER OF THIS PRODUCT. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS MAY NOT APPLY TO YOU.

A/C Product Solutions LLC is a Florida Limited Liability Company governed by the laws of Florida. Any action against A/C Product Solutions LLC shall be brought in Florida and be governed by Florida law. Any disputes arising out of this limited warranty shall be brought in Florida and be governed by Florida Law. For purposes of venue, all actions shall be brought in Twelfth Judicial Circuit of Manatee County, Florida or the United States District Court for the Middle District of Florida.

## Warranty Period

1. A three (3) year limited warranty begins on the date of purchase.
2. During the warranty period, A/C Product Solutions LLC will replace or repair, at its sole option, any defective Steady Stream unit returned to us, or to one of our business partners.

## Warranty Will Be Void When:

1. Problems result from abuse, accident, misuse, or with electrical power.
2. Used not in accordance with the instruction manual.
3. For all products for which A/C Product Solutions LLC has not received payment.
4. Unit is purchased from any other source other than an authorized entity as determined by A/C Product Solutions LLC.
5. Serial number, located in the control box, is altered or removed.
6. Damage caused by negligence, misuse, tampering, alteration, failure to follow safety and/or warning instructions, failure to follow maintenance and/or operation instructions, and failure to follow troubleshooting instructions in case of malfunction.

## Steady Stream is Not Liable for:

1. Steady Stream shall not be liable for any costs or charges attributable to any product testing, maintenance, installation, repair or removal, or for any tools, supplies, or equipment needed to install, repair, or remove any product.
2. Normal product wear and tear.

## Claims Procedure for Domestic and International Returns

When a claim is made to A/C Product Solutions LLC, upon determining that the limited warranty applies we will repair or replace your unit at no cost. The repaired or replaced unit is warranted for the remainder of the original three (3) year limited warranty term. Should the exact unit no longer be available it will be replaced with a comparable unit.

1. Contact customer service: phone 1 (800) 463-1406 or email [info@steadystreamac.com](mailto:info@steadystreamac.com)
2. Provide the following information:
  - a. Proof of purchase
  - b. Return shipping address
3. Buyer is responsible for shipping charges associated with sending the damaged unit to A/C Product Solutions. A/C Product Solutions LLC is not responsible for lost or stolen items or units lost during shipment. Mail item(s) to:  
A/C Product Solutions LLC  
11019 Daybreak Glen, Parrish, FL 34219-1417
4. A/C Product Solutions LLC is responsible for shipping charges associated with sending the repaired/replaced unit to the buyer.  
EXCEPTION: International Returns shipping charges to and from A/C Product Solutions LLC are the sole responsibility of the buyer.