# Steady Stream ®

*Automated / In-Line / Programmable Timer*

DrainPro System

Model T200 (Patent Pending)

# INSTRUCTION MANUAL

For residential and commercial use, installed in 3/4 inch PVC, **GRAVITY FED**, condensation drain lines.
If you have questions or issues with the operation of the DrainPro System please contact customer service at:
Website: www.steadystreamac.com / Email: info@steadystreamac.com / Phone: 1 (800) 463-1406
DrainPro System (also referred to as pump/product/system) is a product that automatically clears the A/C condensation drain line and drain pan of debris and clogs. Step by step instructions provides an easy, quick installation or scan the QR Code for the installation video.

The in-line pump design creates strong suction and discharge pressure preventing/eliminating clogs, ensuring condensation flows freely through the drain line. The pump's pre-programmed timer is set to run for two minutes once a week, every Saturday from 1:00 PM to 1:02 PM (13:00 to 13:02) Eastern Standard Time (EST). If a clog occurs in the condensation drain line or drain pan, the water level sensor will activate, turning the pump on for two minutes, removing the obstruction. The water level sensor must be installed on the secondary drain line in order for the system to detect drain pan clogs.

**SAFETY**

When using the DrainPro System basic safety precautions should always be followed, including the following:

**WARNING**

1. Product is intended to be used as a device that suctions and discharges the condensation drain line and drain pan for the unit (ex. air handler, dehumidifier). Do not use in a manner that is contradictory or outside the scope of the intended use or purpose.
2. Do not plug in the system until you have read the installation instructions.
3. Never attempt to operate the pump with missing or malfunctioning components, this could cause unsafe or hazardous conditions resulting in injury or death.
4. 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.
5. Do not operate the unit with a damaged cord or pump.
6. Always unplug the unit when servicing.

**CAUTION**

1. Keep hair, jewelry, loose clothing and all body parts away from moving components including the actuator/syringe pump.
2. Keep children away from the product, 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 choking hazards.
3. Adhere to state/local laws and ordinances when installing the product.
4. Do NOT connect the system to the power source (outlet or extension cord) until installation is complete.
5. Loss of electricity will result in the pump not turning on. Once power is restored verify and reprogram the timer, if necessary.

**PRODUCT FEATURES**

1. Control Box
2. Timer Instructions
3. Mounting Bracket
4. Digital Timer
5. Actuator/Syringe Pump
6. Rubber Clamp Hole
7. Motorized Ball Valve
8. Water Level Sensor
9. Double Check Valve Housing
10. Flex Hose
11. 3/4 inch PVC Tee (x2)
12. 3/4 inch PVC Side Outlet Elbow
13. 3/4 inch End Cap Flapper
14. 3/4 inch PVC Male Adapter
15. 1 inch Self-Tapping Screw
16. 1/2 inch Self-Tapping Screw
17. Pipe Clamp
18. 3/4 inch PVC Union (x2)




**TOOLS / MATERIALS NEEDED**

- PVC Pipe Cutter/Saw
- Pencil
- Tape Measure
- PVC Primer and Cement
- Teflon Tape
- Flat Head Screwdriver
- Phillips Head Screwdriver
- 5/16 inch Hex Drive
- Power Drill

**INSTALLATION**

**Prior to installation clean the condensation drain line and drain pan ensuring blockages/debris have been removed. The condensation drain line must be a closed system. All vents and cleanouts must have a cap on them.**

1

**POWER OFF THE A/C UNIT**

Locate the thermostat. Switch the mode to OFF to disable the cooling operation.

2

**LOCATE THE A/C COMPONENTS**

1. Find the air handler (commonly located in the attic, utility room, or garage).
2. Locate the condensate drain line connected to the drain pan.

3

**DETERMINE THE INSTALLATION ORIENTATION FOR THE MOTORIZED BALL VALVE, DOUBLE CHECK VALVE HOUSING AND FITTINGS**

1. Choose a location close to the air handler and determine which orientation will work. Note: The motorized ball valve can be installed in either direction, but must be installed between the intake and outtake check valves. There are at least nine orientation options for installing the motorized ball valve:
    - Side Outlet Elbow turning right to horizontal pipe, Side Outlet Elbow turning left to horizontal pipe, Side Outlet Elbow turning right to vertical pipe, Side Outlet Elbow turning left to vertical pipe, Tee to Tee, Tee to vertical right pipe, Tee to vertical left pipe, Tee to horizontal pipe turning right and Tee to horizontal pipe turning left.
2. **The double check valve housing must not be installed upside down or below/underneath the drain line.**
3. **Dry fit the motorized ball valve with fittings including the two unions and the double check valve housing orientation, making sure it fits and has clearance from other objects. If space permits, installing a union on each side of the valve assembly is highly recommended to simplify future system replacements.**
4. ****Make sure the brass check valve with the letter A on it (intake side) is installed on the pipe going to the air handler.****
5. **Once the orientation has been determined dry fit the pieces together to make sure they fit and have clearance from other objects.**
6. When clearance/existing plumbing doesn't allow enough space for your installation, see the Male Adapter instructions below.

4

**REPLACE THE MALE ADAPTER (IF NEEDED)**

1. Remove the existing adapter from the air handler.
2. Apply Teflon tape to the male adapter threads.
3. Hand-tighten the male adapter; turn one to two additional turns using a wrench (overtightening can cause cracking).

5

**MEASURE & MARK THE DRAIN LINE SECTION FOR REMOVAL**

Measure and use a pencil to mark the drain line with the determined orientation, allow for an additional 3/4 inch of drain line that will be inserted into the fittings.

6

**CUT THE DRAIN LINE**

1. Use a pipe cutter or hacksaw to cut along the marked pipe.
2. Remove the cut section of pipe and **dry fit** the new orientation to confirm it fits and has clearance from other objects.

7

**INSTALL THE MOTORIZED BALL VALVE, DOUBLE CHECK VALVE HOUSING AND FITTINGS**

1. ****Make sure the brass check valve with the letter A on it (the intake side) is installed on the pipe going to the air handler.****
2. Glue all the pieces using PVC primer and cement following product directions.
3. Allow time to cure based on cement instructions.

8

**MOUNT THE ACTUATOR/SYRINGE PUMP**

1. The actuator/syringe pump offers flexible mounting options, including the air handler (front or sides), walls, ceilings, or attic framing. To accommodate the 4-foot flex line, ensure the pump is installed within 4 feet of the double check valve housing. While the pump functions at any angle, from vertical to horizontal, the brass barb must never point upward.
2. Either locate a frame screw on the air handler, find a wall stud or use an anchor rated for a minimum of 10 pounds and make sure you have a minimum clearance of ten inches above the syringe pump.
3. If mounting on the air handler, remove the chosen frame screw from the air handler.
4. Use the provided 1 inch self-tapping screw for installation on the air handler. Use a wood or anchor screw (not included) for mounting on a wall, ceiling or 2x4.
5. Insert the screw through the rubber clamp hole attached to the actuator.
6. Fasten the screw until the actuator/syringe pump is secure on the air handler frame, wall stud or wall anchor making sure the brass barb is facing down, sideways or somewhere in between, not facing upward. Make sure there's a minimum clearance of ten inches above the syringe pump.

9

**MOUNT THE CONTROL BOX**

1. The control box offers flexible mounting options, including the air handler (front or sides), walls, ceilings, or attic framing.
2. Take the control box and align it to a flat surface, open the lid to ensure you have appropriate clearance.

3. Insert the provided 1/2 inch self-tapping screw through the mounting bracket located on the top of the control box and secure it to the air handler or use a wood screw or anchor and screw (not included) for mounting on a wall, ceiling or 2x4.

10 **INSTALL THE WATER LEVEL SENSOR**

1. Locate the secondary drain line (typically an emergency drain line with a safety float switch).
2. Snap the water level sensor onto the **side of the pipe** so the part of the sensor with the wire going into it is on the side of the pipe. (DO NOT place the water sensor on the top or the bottom of the pipe).
3. If there is not at least 1-1/2 inches of pipe on the secondary drain line:
    - If no safety float switch exists, it's recommended to install one with at least 1-1/2 inch pipe for the water sensor to snap onto.
4. If the water level sensor cannot be installed on the secondary drain line, install the water sensor on the primary drain line.
   **Note: The system will not activate when the drain pan clogs if the water sensor is not installed on the secondary drain line.**
    - If possible, install the water level sensor between the drain pan and the installed fitting closest to the air handler.
    - If there's not enough clearance, install the water level sensor directly after the installed fitting furthest from the air handler.

11 **CONNECT THE FLEX HOSE TO THE SYRINGE PUMP**

1. Start by holding the flex hose up to the brass barb on the bottom of the pump to check its length, If necessary, trim the hose so it remains as vertical as possible with no loops or dips, ensuring the pump connection is the highest point of the hose.
2. Slide the provided clamp onto the hose.
3. Push the hose over the full length of the barb fitting.
4. Slide the pipe clamp over the barb and tighten it securely.

12 **INSTALL THE END CAP FLAPPER**

1. Find the condensation drain line outlet where the drain line exits the home/building.
2. The End Cap Flapper must be installed horizontally so the flapper rests in the closed position.
   Note: Some drain lines exiting the home/building may be 1 inch pipe in which case you'll need a 1 inch to 3/4 inch adapter to install the End Cap Flapper.
3. The End Cap Flapper protects the drain line from insects/bugs entering it and potentially clogging it. It also eliminates the air handler's negative pressure from within the drain line allowing condensate to drain properly with or without a p-trap.

13 **POWER THE CONTROL BOX**

1. Open the lid of the control box by releasing the two side tabs on the right side of the box to see if the LED screen is showing the day and time and if it is, proceed to step 3.
2. If the LED screen is blank, use a pencil, pen, paperclip or other small tip object to press and release the C button on the digital timer once it's plugged into power. This will reset the timer. Follow the timer instructions located inside of the control box lid to set the day, time and run schedule. ***Every time the pump is activated, it will run for two minutes and turn off automatically unless unplugged from the power source.***
3. Plug in the control box.
    - If no outlet is nearby, use an extension cord or have an outlet installed.
    - Alternatively, the control box can be hardwired to the A/C unit's power source by a licensed individual.
    - If the pump automatically starts running, refer to the instructions located inside the control box lid.

14 **PROGRAM DIGITAL TIMER**

1. Open the control box by releasing the two side tabs on the right side of the box.
2. Verify the timer and cycle settings are correct; timer is pre-set to run for two minutes every Saturday at 1:00PM (13:00) EST.
3. It's recommended to run the DrainPro System once a week if the water level sensor is installed on the secondary drain line. If the water sensor is installed on the primary drain line it's recommended to run the system two to three times a week. (Tues and Thurs or Mon, Wed and Fri)
4. If needed, set the current time and desired schedule for the DrainPro System operation. (Instructions located inside the control box lid)

15 **FINAL CHECK**

1. Turn the A/C system back on at the thermostat.
2. Make sure all fittings are tight to ensure no leaks.
3. Test the DrainPro System.
    a. Open the control box.
    b. Press the Manual button until ON is displayed.
    c. Once the pump is activated, press the Manual button three times displaying the AUTO mode (without the red light on and without the lightbulb symbol).
    d. The pump will run for two minutes and automatically turn off.
    e. Note: The only way to stop the pump while running is to unplug it from the power source.

# 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.**

DrainPro System Limited Warranty is subject to change; the latest version is available at www.steadystreamac.com.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS WHICH MAY VARY FROM STATE TO STATE. A/C PRODUCT SOLUTIONS LLC RESPONSBILITY 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. The 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 DrainPro System 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. Product 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 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, 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 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
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
    9058 39th Street Cir E, Parrish, FL 34219-2215
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.

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