AC Flood Guard™

GraviTrip™

PATENTED GRAVITY-ACTIVATED SHUTOFF

Installation & Safety Instructions — Read Before Installing

Shuts off HVAC equipment when condensate drain line clogs, backflows, and fills collection bottle.

DANGER / WARNING

- Risk of Electric Shock.
- Disconnect or shut off power to HVAC equipment before installation or service.
- Installation by a qualified HVAC technician or licensed electrician only.
- For low-voltage HVAC control circuits only. Do not connect to 120/240 VAC line voltage.
- This device is a supplemental safety device.
- Not a leak detector.

What this kit does

This kit helps reduce condensate-overflow risk by actuating a switch when water routed to the collection bottle reaches the set fill level. The installer may wire the switch to interrupt the HVAC low-voltage control circuit where permitted by the equipment manufacturer.

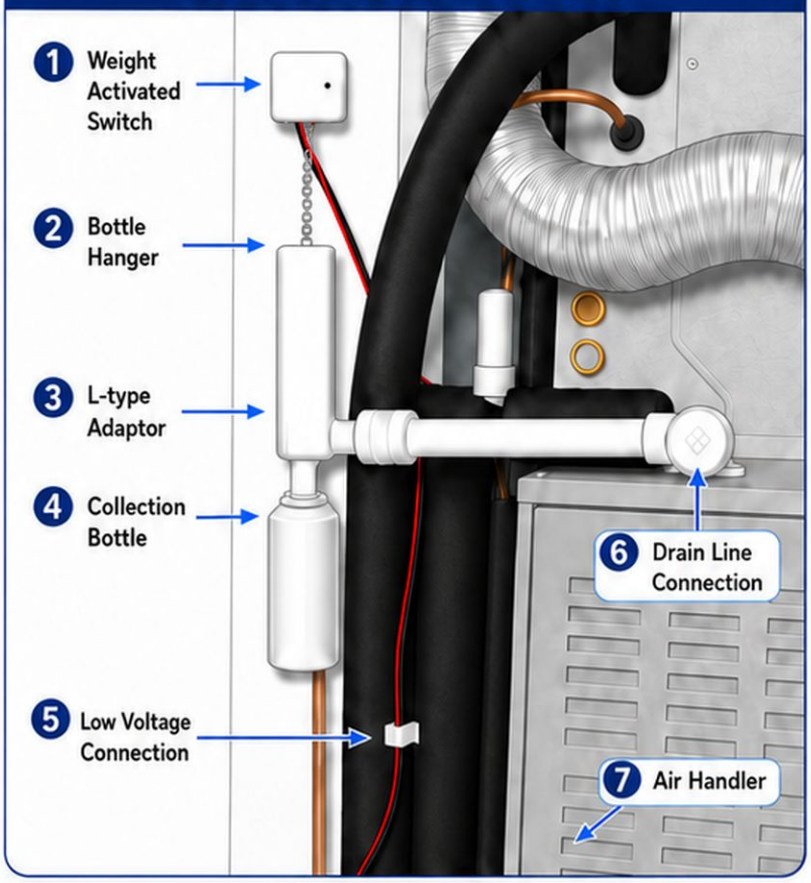
Kit contents – verify before installation

1	Switch box assembly with UL61058-rated switch, UL94V1-rated switch box, and wiring leads
1	Bottle hanger
1	Collection bottle
1	L-type adaptor (antimicrobial to reduce algae buildup)
1	Chain assembly
1	Chain clip
2	Mounting screws
1	pair of 18 AWG UL1007-rated red and black wire leads
1	Instruction/warning insert

Before installation

- Product use is restricted to low-voltage 24 VAC only.
- Inspect all parts. Do not install cracked, bent, corroded, missing, or damaged components.
- Select a location that routes condensate to the bottle, remains accessible for inspection and emptying, and is clear of walkways, moving parts, heat sources, and sharp edges.
- Mount only to a stable support capable of supporting at least 2.2 lbs including water load, vibration, and service handling.
- Confirm compliance with local code and equipment manufacturer requirements before wiring.

AC Flood Guard – Installed



Installs in 3 easy steps:

1. Hang the weight-activated switch.
2. Direct drain line overflow to bottle.
3. Wire to low-voltage circuit.

PROFESSIONAL INSTALLATION ONLY | INDOOR 24 VAC LOW-VOLTAGE HVAC CONTROL CIRCUITS ONLY

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Installation, Testing, Maintenance & Warranty

Read completely before installation, testing, or servicing.

1 Installation summary

CALIBRATION WARNING: The control switch is factory-calibrated to activate at a specified suspended load. The full factory-supplied chain is a required part of that calibrated load. DO NOT CUT, SHORTEN, REMOVE LINKS FROM, REPLACE, OR OTHERWISE ALTER THE CHAIN.

1. Turn off power at the service disconnect and verify power is off before opening any HVAC panel or making electrical connections.
2. Screw the bottle into the bottom of the bottle hanger until secure.
3. Select a suitable installation location where condensate/overflow water can be readily directed to the bottle. Mount the switch box to a secure support. Keep the bottle vertical and ensure the bottle hanger assembly hangs and moves freely without rubbing, binding, or contacting other components.
4. The chain threads through the hole at the top of the bottle hanger. Adjust the clip along the chain while determining the distance between the switch box and the bottle hanger so the L-Adapter is positioned properly inside the bottle. Once proper distance is determined, squeeze clip ends together. Do not cut any excess chain length as it is part of the weight trigger calibration.
5. Route condensate/overflow water to the collection bottle using 3/4-inch PVC piping installed with a slight, continuous downward slope toward the bottle to ensure water flows freely. Securely bond the L-type adapter to the PVC pipe using approved PVC cement, and position the adapter's narrow end inside the bottle. Do not kink, crush, or obstruct the piping or adapter, or allow either to interfere with the free movement of the bottle hanger assembly. If necessary, reposition the metal clip as described in Step 4 to obtain proper alignment.
6. Wire the switch into the HVAC low-voltage control circuit in accordance with the wiring guide below.
7. Secure all wiring, reinstall covers, restore power, and perform the functional test before leaving the installation.

2 Functional test, operation and maintenance

- Test by adding water to the bottle until the switch activates and turns off the a/c.
- Confirm the HVAC system shuts down or the selected alarm/control circuit activates.
- Empty the bottle and confirm the switch resets and the system returns to normal only after the overflow condition is corrected.
- If the test fails, disconnect power and correct installation, mounting, chain routing or clip position, bottle seating, adapter alignment, and wiring, then retest before use.

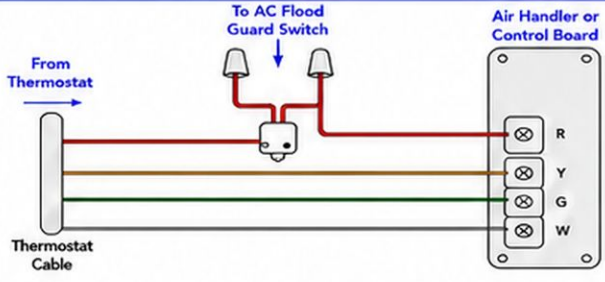
- If the HVAC system shuts off and the bottle contains water, treat it as a drain/overflow condition. Have a qualified technician inspect and clear the condensate issue.
- Inspect the bottle, hanger, chain, hook/clip, adapter, screws, and wiring after any HVAC service.
- Test switch function and inspect entire installation every six months.
- Keep the bottle upright and clean. Clean with mild soap and water only.
- Replace the complete unit if any component is damaged, discolored, cracked, corroded, loose, or unreliable.

3 Use restrictions and important limitations

- Indour use only.
- For low-voltage 24 VAC HVAC control circuits only. Do not use above the approved control voltage.
- Do not submerge the switch box or expose it to outdoor weather.
- Do not install in corrosive or explosive atmospheres or places where children can access the kit.
- This device is a supplemental safety device and not a leak detector.
- It does not detect leaks outside the collection path, internal evaporator pan overflows not routed to the bottle, freezing, power loss, reactant tubing, or improper installation.
- Premature, delayed, or failed activation may occur if the chain is cut, shortened, has links removed, is replaced, or is otherwise altered because the switch is calibrated for the weight of the complete factory-supplied chain.
- Dispose of electrical/electronic components according to local e-waste rules.

4 Low-Voltage Wiring Guide

1. **Turn off power.**
   Before doing any wiring, switch off power to the HVAC system at the breaker or main electrical panel.
2. **Locate the thermostat cable.**
   Find the low-voltage thermostat cable where it enters the air handler or furnace control area.
3. **Install the switch in series.**
   Cut the red 24V (R) control lead and connect the two AC Flood Guard switch leads into the circuit using wire nuts or approved low-voltage connectors.



IMPORTANT

All wiring is low voltage (24 VAC). Use appropriate low-voltage materials and keep wires away from line-voltage components.

3-YEAR LIMITED WARRANTY — SWITCH FAILURE ONLY

3 YEAR LIMITED WARRANTY

AC Flood Guard™ warrants to the original retail purchaser that the switch component of the AC Flood Guard™ GraviTrip™ Gravity-Activated Condensate Shutoff will be free from defects in materials and workmanship that cause switch failure for three (3) years from the date of purchase. This limited warranty covers switch failure only. It does not cover installation, wiring, tubing, drains, HVAC equipment, condensate overflow, false alarm, field labor to test off, flooding, leaks, water damage, property, property or any component or condition outside the switch itself. AC Flood Guard's sole obligation, and the purchaser's sole and exclusive remedy, is replacement of the defective switch component or product, at AC Flood Guard's option. This warranty does not cover labor, diagnosis, service calls, removal, reinstallation, travel, shipping, handling or other costs, except where prohibited by law.

This warranty is void if failure or damage results from improper installation, wiring, setting, maintenance, misuse, modification, cutting or shortening the chain, bypassing the switch, use outside product instructions or rated conditions, corrosive, freezing, or delayed activation issues, or failure to inspect, test, prompt, clean, and maintain the product are instructed. The owner and installer are responsible for proper installation, routine testing before use, regular inspections, monthly switch testing, and all required maintenance.

TO THE MAXIMUM EXTENT PERMITTED BY LAW, AC FLOOD GUARD™ IS NOT LIABLE FOR INCIDENTAL, CONSEQUENTIAL, SPECIAL, INDIRECT, OR OTHER DAMAGES, INCLUDING WATER DAMAGE, FLOODING, HVAC DAMAGE, PROPERTY DAMAGE, MOLD, LOSS OF USE, LOST PROFITS, OR COSTS ARISING FROM PRODUCT FAILURE, FAILURE TO SHUT OFF, FALSE SHUTOFF, INSTALLATION, MAINTENANCE, OR USE.

To make a claim, contact AC Flood Guard™ Warranty Service at support@acfloodguard.com or AC Flood Guard™ at 4440 PGA Blvd., Suite 600, Palm Beach Gardens, FL 33410 within the warranty period. Proof of purchase, product/lot information, a description of the claimed switch failure, and return or inspection of the product may be required. Replacement does not extend the original warranty period. To the extent prohibited by law, any implied warranties are limited to the duration of this limited warranty. Some jurisdictions do not allow limitations on implied warranties or exclusion of incidental or consequential damages, so some limitations may not apply.

Support: www.acfloodguard.com

Email: support@acfloodguard.com

Patents:
US Patent No. 11,320,172
US Patent No. 11,692,736