RECTORSEAL

A CSW Industrials Company

ATTENTION:
Clean surface with included alcohol pad before mounting with adhesive tape.

AG-3150E/75E

Installation Instructions:

Work Safe, READ THIS!

ATTENTION: FAILURE TO READ AND COMPLY WITH ALL WARNINGS, CAUTIONS AND INSTRUCTIONS PRIOR TO STARTING INSTALLATION MAY CAUSE PERSONAL INJURY AND/OR PROPERTY DAMAGE AND VOID WARRANTY.

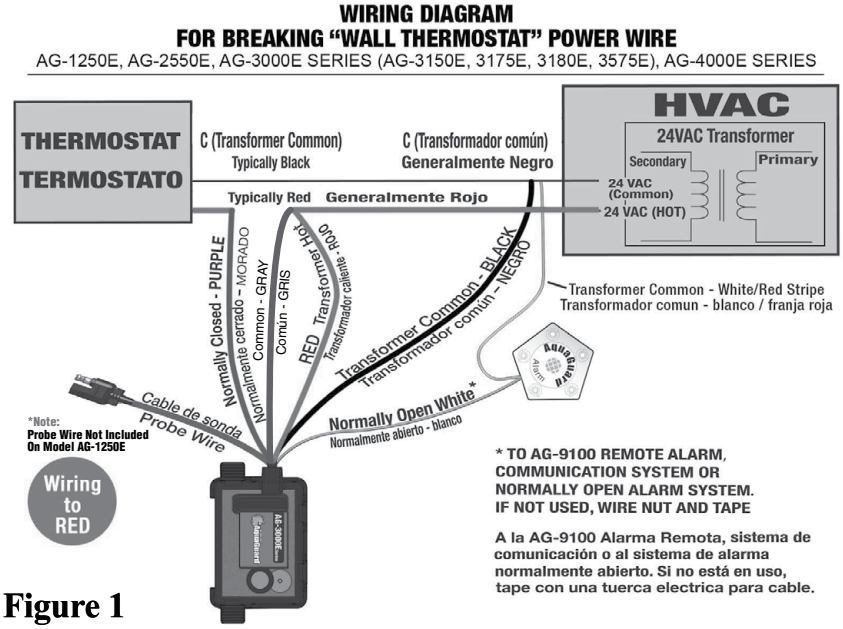
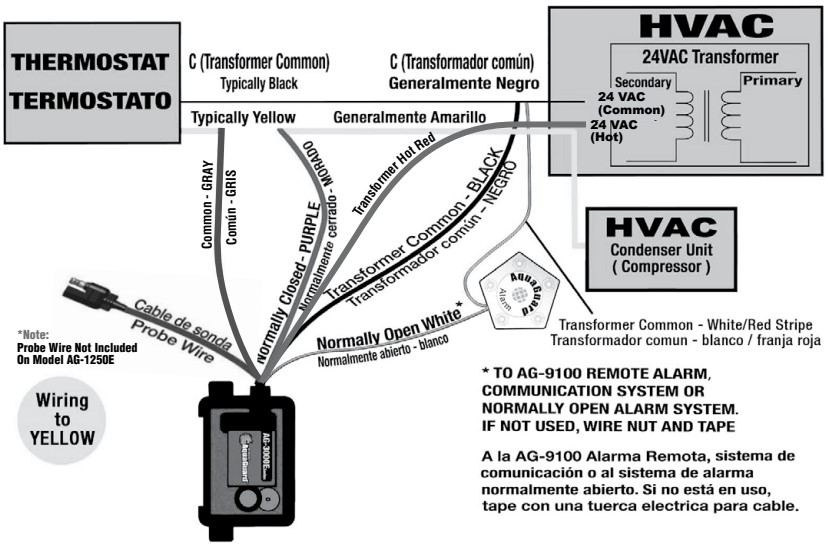


Figure 1

1. In HVAC Unit locate HVAC Power wire going to "Wall Thermostat", (Typically RED). Break/Disconnect 24 VAC Power wire going to "Wall Thermostat".
   - A. Connect "RED", "Input 24 VAC (Hot)" and "Gray" "Common" wire of AG-3150E/75E to 24 VAC (Hot) secondary side of 24 VAC Transformer.
   - B. Connect "PURPLE", "Normally Closed" wire of AG-3150E/75E to Thermostat's "R" Terminal wire.
     NOTE: "PURPLE" wire must be connected to "THERMOSTAT". Maximum capacity 24VAC/5Amp.
   - C. Connect "BLACK", "Input: 24 VAC (Common)" wire of AG-3150E/75E to 24 VAC (COMMON) secondary side of 24 VAC Transformer or Thermostat's "C" Terminal.
   - D. Optional: Connect "WHITE", "Normally Open" wire of AG-3150E/75E to the "WHITE" wire of AquaGuard, AG-9100 External Alarm or Home Alarm System, or Communicating System, etc...
     NOTE: "WHITE", "Normally Open" wire maximum capacity, 24VAC/1Amp.
2. Test the AG-3150E/75E Secondary Pan Sensor (At start-up check initial amperage load) while the HVAC unit is on and functioning correctly. See installation of the AG-3150E/75E:

OPTIONAL WIRING DIAGRAM FOR BREAKING COMPRESSOR WIRE

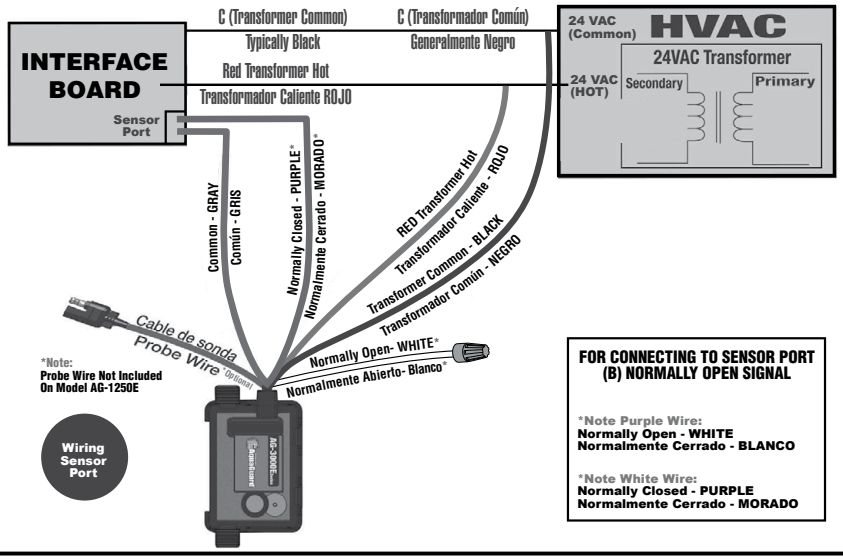
AG-1250E, AG-2550E, AG-3000E SERIES (AG-3150E, 3175E, 3180E, 3575E), AG-4000E SERIES



1. In HVAC Unit locate "Compressor wire going to "Wall Thermostat", typically (YELLOW). Break/Disconnect Compressor wire going to "Wall Thermostat".
   A. Connect typically "YELLOW" wire, going to "Wall Thermostat" to "Gray" "Common" wires of AG-3150E/75E.
   B. Connect "PURPLE", "Normally Closed" wire of AG-3150E/75E to Compressor's typically "YELLOW" wire going to Compressor.
   NOTE: "PURPLE" wire must be connected to COMPRESSOR "YELLOW" Wire. Maximum capacity 24VAC/5Amp.
   C. Connect "RED", "Input: 24VAC (Hot) wire of AG-3150E/75E to 24VAC (Hot) of 24VAC Transformer or Thermostat's "R" terminal.
   D. Connect "BLACK", "Input: 24VAC (Common) wire of AG-3150E/75E to 24VAC (Common) secondary side of 24VAC Transformer or Thermostat's "C" terminal.
   E. Optional: Connect "WHITE", "Normally Open" wire of AG-3150E-75E to the "WHITE" wire of AquaGuard AG-9100 External Alarm (see Figure 1) or Home Alarm System, or Communicating System, etc...
   NOTE: "WHITE", "Normally Open" wire maximum capacity, 24VAC/1Amp.
2. Test the AG-3150E/75E Secondary Pan Sensor (At start-up check initial amperage load) while the HVAC unit is on and functioning correctly. See installation of the AG-3150E/75E:

FOR CONNECTING TO SENSOR PORT (A) NORMALLY CLOSED SIGNAL

AG-1250E, AG-2550E, AG-3000E SERIES (AG-3150E, 3175E, 3180E, 3575E), AG-4000E SERIES



NOTE: For communicating HVAC systems, refer to equipment manufacturers recommendations for specific wiring instructions.

INSTALLATION OF THE AG-3150E/75E:

(To ensure proper performance of product, instructions must be followed.)

1. Clean desired mounting area with included alcohol pad.
2. Using the double-sided tape or mounting clips provided with the AG-3150E/75E, affix the mounting base in the lowest point of the pan within 25" of the secondary drain port (fig. 2) and snap AG-3150E/75E Secondary Pan Sensor into mounting base.
   Note: If not using a secondary drain pan, AG-3150E/75E Secondary Pan Sensor may be mounted to the side of the HVAC unit using the double-sided tape or mounting clips. (fig.3)
   Note: if using the optional AG-3176E micro sensor, refer to the installation instructions included with the AG-3176E .
3. Couple the probe sensor and the AG-3150E/75E Secondary Pan Sensor using the one-way connector (fig. 4)
4. Test the AG-3150E/75E: thread the probe sensor on the secondary drain line on the primary pan. Plug the condensate line and fill the primary drain pan with water. If sensor has been installed properly, the HVAC unit will stop running and LED will illuminate (time delay up to 60 seconds ON). Also touch the sensor probes with wetted fingers. If sensor has been installed properly, the HVAC unit will stop running and LED will illuminate (time delay up to 60 seconds ON).
5. After testing the probe sensor, uncouple the one-way connector to facilitate installation of the AG-3150E/75E Secondary Pan Sensor (when installed, go to Step 3).
6. Some units have a plastic piece that extends beyond the drain hole opening which will prevent the probe sensor from sealing properly into the auxiliary drain port. If this is the case, refer to step 7. Otherwise refer to step 8.
7. Thread the adapter fitting (fig. 7) into an available auxiliary drain port of the primary drain pan. Tighten with pliers to ensure a proper seal,remove the O-ring from the probe, and replace with the flat washer (included). Thread the probe sensor into the adapter ensuring that it has been seated properly. Refer to step 9.
   Note: Over tightening will cause rubber O-ring/washer to bulge out leading to potential leaks.
8. Thread the probe sensor into an available auxiliary drain port of the primary drain pan (fig. 8). Ensure the probe sensor is above the dam and make sure that the seal has been seated properly (fig. 2).
9. Re-couple the one-way connector (See Step 3). HVAC system should now be operational.
10. Place the included ATTENTION sticker on HVAC unit in a clearly visible location (fig. 9).
11. Test the HVAC unit by plugging the condensate line and filling the primary drain pan with water. If AG-3150E/75E has been installed properly, the HVAC unit will shut down prior to the pan overflowing. Check for leaks (time delay up to 60 sec ON).

ADAPTER:

Potential uses.

I. See Steps 6 & 7.

II. In the event the Probe Sensor encounters interference during installation use adapter (works best with Non-Dammed drain). Make sure to remove the O-ring from the probe, and replace with the flat washer (included).

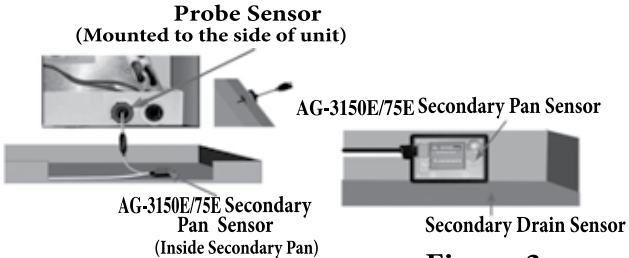


Figure 2

Figure 3

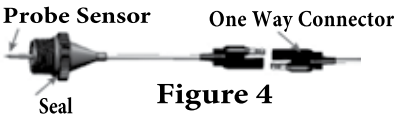


Figure 4



Figure 5



Figure 6


Figure 7

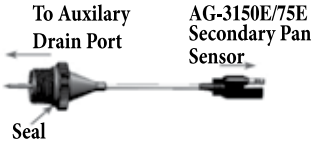


Figure 8



Figure 9

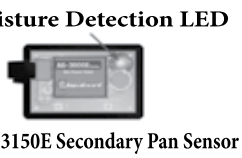


Figure 10

Specifications: Relay Normally Closed Contact 5Amps @ 24VAC – Red to Purple; Relay Normally Open Contact 1Amp @ 24VAC – Red to White.

ATTENTION: Work Safe

- The AG-3150E/75E must be installed in accordance with manufacturer's instructions. The AG-3150E/75E must be installed in accordance with all applicable local plumbing, drainage and electrical codes.
- Remove electrical shock hazard – DISCONNECT THE POWER TO THE HVAC UNIT BEFORE INSTALLING THE AQUAGUARD AG-3150E/75E to avoid electrical shock and/or equipment damage. Do not use on circuits exceeding 24 VAC to avoid damage to sensor, shock or fire hazard.
- In some situations the sensor may cause the unit to rapidly cycle on and off as water level rises slowly in pan. After a brief period the HVAC unit will turn off completely. Condensation drain must be serviced if this occurs.
- In any installation where property damage and/or personal injury might result from an inoperative sensor due to power outages, a back-up system(s) and /or alarm should be installed.
- The AG-3150E/75E must only be installed by a licensed contractor. Condensation pan must be properly maintained after installation and be kept free of foreign matter, rust or other obstructions that might interfere with the proper operation of the AG-3150E/75E.
- If sensor is exposed to cleaning solution or has dirty probes, it may not allow the HVAC to function properly. If such, remove probe sensor and/or secondary pan sensor, clean, and dry.

LIMITED WARRANTIES AND LIMITATION OF LIABILITY

REGISTER YOUR PRODUCT ONLINE: www.rectorseal.com

1 YEAR SWITCH AND SENSOR LIMITED WARRANTY AND LIMITATION OF LIABILITY

The limitations of liability set forth below include body and all component parts as well as the product itself as a whole.

Rectorseal warrants to the original consumer purchaser ("Purchaser) of its AquaGuard switch and sensor products, that they are free from defects in material or workmanship for a period of one (1) year from the date of purchase. If this product shall prove to be defective within the one (1) year period from the date of purchase, it shall be repaired or replaced, at Rectorseal 's option, subject to the GENERAL TERMS and CONDITIONS set forth below.

EXCLUSIONS

This warranty does not cover damages resulting from use of components or accessories not approved by Rectorseal. 3, and 10 YEAR SECONDARY DRAIN PAN LIMITED WARRANTY AND LIMITATION OF LIABILITY

This warranty applies only to secondary drain pans installed in the United States and Canada.

Rectorseal warrants to the original consumer purchaser ("Purchaser") of its AquaGuard secondary drain pan products, that they are free from defects in material or workmanship for a period of three (3) years for Titan pan models, ten (10) years for Goliath and Goliath Furnace models, from the date of purchase. If this product shall prove to be defective within the three, five or ten (3, or 10) year period from the date of purchase, it shall be repaired or replaced, at Rectorseal's option, subject to the GENERAL TERMS and CONDITIONS set forth below. This warranty extends only to the original consumer purchaser and is nontransferable.

EXCLUSIONS

This warranty does not cover damages resulting from the use of corrosive material (including, but not limited to: Acetone, MEK and petro-leum-based products); nor damages resulting from use of components or accessories not approved by Rectorseal.

GENERAL TERMS AND CONDITIONS

To be eligible for the warranty the purchaser must provide Rectorseal with the following:

1. Proof of Purchase (Original Receipt)
2. Installer's Testimony
3. Original Product
4. Original Work Order
5. Photos of Installation

PURCHASER MUST PAY ALL LABOR AND SHIPPING CHARGES NECESSARY TO REPLACE PRODUCT COVERED BY THIS WARRANTY. This warranty shall not apply to acts of God, nor shall it apply to products which, in the sole judgment of Rectorseal have been subject to negligence, abuse, accident, tampering, misapplication, alteration; nor due to improper installation, operation or maintenance or storage; nor moved from its original place of installation; nor to other than normal application, use or service, including but not limited to, operational failures caused by corrosion, rust or other foreign materials in the system. Requests for service under this warranty shall be made by returning the defective product to the Retail outlet or to Rectorseal as soon as possible after the discovery of any alleged defect. Rectorseal will subsequently take corrective action as promptly as reasonably possible. No requests for service under this warranty will be accepted if received more than thirty-one (31) days after the term of the warranty.1hiswarranty sets forth Rectorseal's sole obligation and purchaser's exclusive remedy for defective products. For your benefit and protection register your product online at www.rectorseal.com within thirty (30) days of installation. This will initiate the Warranty period and will allow us to contact you, should it become necessary. In the absence of a recorded product registration, the Warranty period will begin upon product shipment from Rectorseal. In the event that Rectorseal attempts to contact consumers regarding a recall or other matter, and any damages occur, which could have been avoided by registration by the consumer, Rectorseal shall have no liability. IN ALL CIRCUMSTANCES, RECTORSEAL'S MAXIMUM LIABILITY SHALL NOT EXCEED THE ACTUAL PURCHASE PRICE PAID FOR THE PRODUCT ALONE. Warranty claims must be registered with Rectorseal within thirty (30) days of damage or malfunction. Rectorseal reserves the right to visit the site of the installation or to require documentation of the claim before assuming any responsibility under the provisions of this Warranty.Consumer agrees to inspect the product at the time of installation for any reasonable discernable defects and, further, agrees to inspect the product annually. Any damages occurring, which could have been avoided by proper inspection will not be the responsibility of Rectorseal. RECTORSEAL SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, OR CONTINGENT DAMAGES WHATSOEVER TO THE PURCHASER OR ANY THIRD PARTY.THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL EXPRESSED WARRANTIES. IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL NOT EXTEND BEYOND THE DURATION OF THE APPLICABLE EXPRESSED WARRANTIES PROVIDED HEREIN.

Some states do not allow the exclusion of limitation of incidental and consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other legal rights that vary from state to state. VENUE: Any purchaser or third party actions brought for any reason hereunder shall be commenced in Houston, TX and no other jurisdiction, and such action shall be governed by and construed in accordance with the laws of the State of Texas. Any notice herein shall be sent by certified or registered mail to 2601 Spenwick Drive, Houston, TX USA