RECTORSEAL **Installation Instructions**

AG-4100E
AG-4200E
AG-4300E

Wiring the AquaGuard® AG-4100E, 4200E or 4300E - Water Sensor and Drain Port

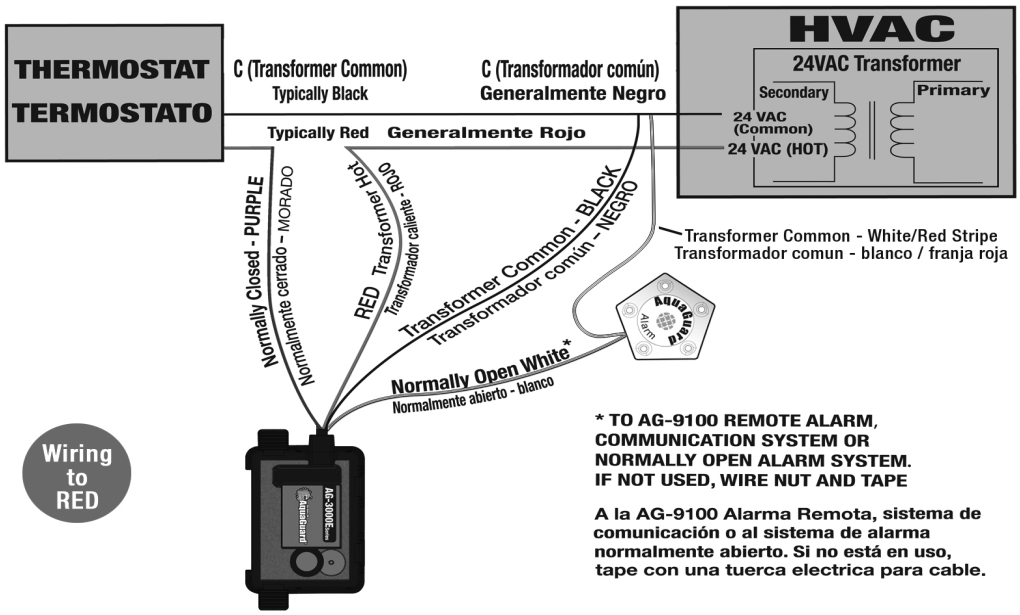
Work Safe, READ THIS!

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.

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

FOR BREAKING "WALL THERMOSTAT" POWER WIRE (Wiring to RED)

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

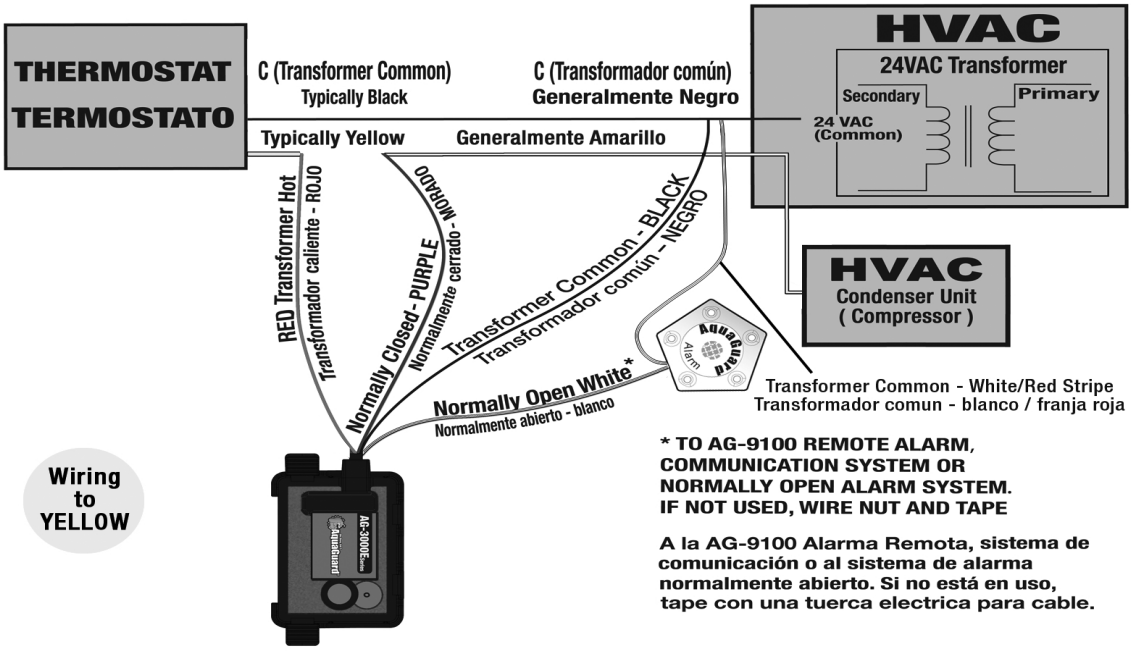


1. In HVAC Unit locate 24 VAC Power wire going to "Wall Thermostat", (Typically RED). Break/Disconnect 24 VAC Power wire going to "Wall Thermostat".
   A. Connect "RED", "Input: 24 VAC (Hot)" wire of AG-1250E to 24 VAC (Hot) secondary side of 24 VAC Transformer.
   B. Connect "PURPLE", "Normally Closed" wire of AG-1250E to Thermostat's "R" Terminal.
   NOTE: "PURPLE" wire must be connected to "THERMOSTAT". Maximum capacity 24VAC/5Amp.
   C. Connect "BLACK", "Input: 24 VAC (Common)" wire of AG-1250E to 24 VAC (COMMON) secondary side of 24 VAC Transformer or Thermostat's "C" Terminal.
   D. Connect "WHITE", "Normally Open" wire of AG-1250E 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-1250E Secondary Pan Sensor (At start-up check initial amperage load) while the HVAC unit is on and functioning correctly. See installation of the AG-1250E:

OPTIONAL: FOR BREAKING COMPRESSOR WIRE (Wiring to YELLOW)

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

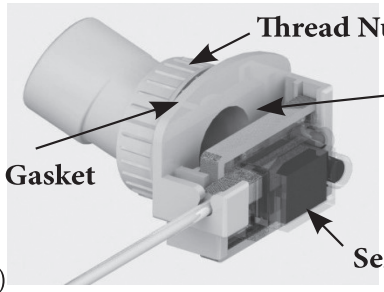


1. In HVAC Unit locate "Compressor wire going to "Wall Thermostat", typically (YELLOW). Break/Disconnect Compressor wire going to "Wall Thermostat".
   A. Connect typically "YELLOW" wire, going to "Wall Thermostat" to "RED", "Input: 24 VAC (Hot)" wire of AG-1250E .
   B. Connect "PURPLE", "Normally Closed" wire of AG-1250E 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 "BLACK", "Input: 24 VAC (Common)" wire of AG-1250E to 24 VAC (COMMON) secondary side of 24 VAC Transformer or Thermostat's"C" Terminal.
   D. Connect "WHITE", "Normally Open" wire of AG-1250E 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-1250E Secondary Pan Sensor (At start-up check initial amperage load) while the HVAC unit is on and functioning correctly. See installation of the AG-1250E:

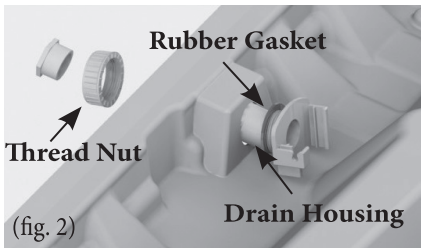
DRAIN FITTING AND SENSOR INSTALLATION

1. Remove the threaded nut from the drain housing/ sensor carrier. (fig. 1)

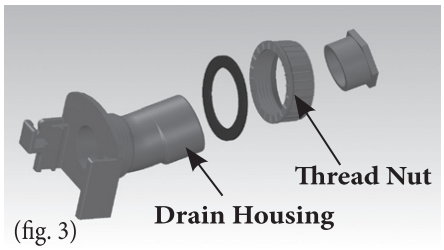


(fig. 1)

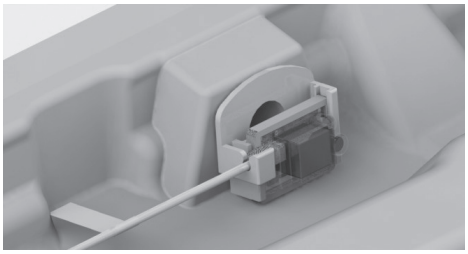
2. Install the drain housing from inside the pan MAKING SURE THE RUBBER GASKETS ARE ON THE INSIDE OF THE PAN. (fig. 2)
3. Screw the nut onto the drain housing from outside the pan and securely hand tighten. (fig. 3)



(fig. 2)



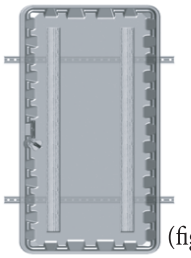
(fig. 3)

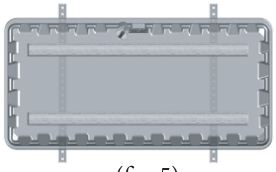


TITAN Drain Pan Installation:

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

1. Inspect the drain pan for any shipping damage that may have occurred. If cracked or broken, DO NOT USE.
2. Make sure drain pan exceeds equipment dimensions by a minimum of 1.5" per side.
3. Make sure the pan-mounting surface is level and free of any debris.
4. For solid surface applications, place HVAC unit on blocks or 2-4x4 boards running the full length of the Titan pan between the HVAC unit and the Titan pan on either of the water displacement ridge. (fig. 4)
5. For hanging application, place 2-4x4 boards running the full length of the Titan pan between the HVAC unit and the pan on either side of the water displacement ridge. (fig. 5). Note: Pressure treated wood will not damage the pan.
6. Local code approved steel supports are to be placed 6" to 8" from the end of the 4x4 as shown. figs. 5,6).
   IMPORTANT! When brazing, take precautions to prevent pan from coming in contact with torch heat or brazing materials. It's recom mended that a damp cloth be placed under the lines being brazed.


(fig. 4)


(fig. 5)



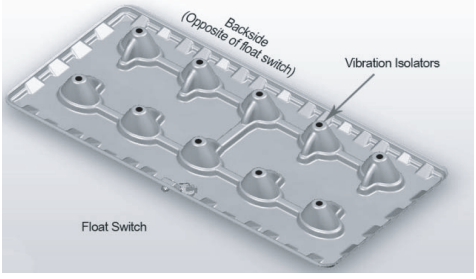
(fig. 6)

GOLIATH VALUE, GOLIATH FURNACE Horizontal Drain Pan Installation:

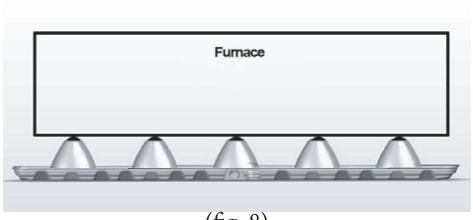
(To ensure proper performance of product, instructions must be followed.)

1. Refer to Furnace/Air Handler instructions prior to installation.
2. Inspect the drain pan for any shipping damage that may have occurred. If cracked or broken, DO NOT USE.
3. Make sure drain pan exceeds equipment dimensions by a minimum of 1.5" per side.
4. Make sure the pan-mounting surface is level and free of any debris.
   IMPORTANT! When brazing, take precautions to prevent pan from coming in contact with torch heat or brazing materials. It's recommended that a damp cloth be placed under the lines being brazed.
5. Insert rubber Vibration Isolators (Goliath Value, Goliath, and Goliath Furnace series only) in the most appropriate support receptacles (fig.11). It is not necessary to fill every receptacle.
6. Position air handler in the center of the pan. (fig. 7)
7. For Goliath furnace drain pan installations, refer to manufacturer's instructions regarding clearance specifications. Optional AG-MJ1 Riser Kit may be used to achieve additional 1" clearance between furnace and pan.
8. For furnace installations, position the furnace with the heavy side of the unit resting on "back side" of the pan, i.e. the side directly opposite of the sensor. (fig. 8)

IMPORTANT! When brazing, take precautions to prevent pan from coming in contact with torch heat or brazing materials. It's recommended that a damp cloth be placed under the lines being brazed.
Caution: AquaGuard GOLIATH VALUE and GOLIATH FURNACE Series Drain Pans are not designed for hanging applications



(fig. 7)

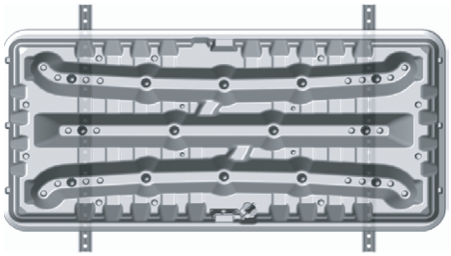


(fig. 8)

GOLIATH Horizontal Drain Pan Installation:

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

1. Inspect the drain pan for any shipping damage that may have occurred. If cracked or broken, DO NOT USE.
2. Make sure drain pan exceeds equipment dimensions by a minimum of 1.5" per side.
3. Make sure the pan-mounting surface is level and free of any debris.
   IMPORTANT! When brazing, take precautions to prevent pan from coming in contact with torch heat or brazing materials. It's recommended that a damp cloth be placed under the lines being brazed.
4. Insert rubber vibration isolators (Goliath Value, Goliath, and Goliath Furnace series only) in the most appropriate support receptacles (fig.9). It is not necessary to fill every receptacle.
5. Position air handler in the center of the pan. Safely hang or place pan on flat level surface. Check your local building codes before installation.
6. When hanging, pans must be supported equally at least 8" from each end by a support system approved by local code. (figs. 10)
   IMPORTANT! When brazing, take precautions to prevent pan from coming in contact with torch heat or brazing materials. It's recommended that a damp cloth be placed under the lines being brazed.
   (fig. 13) (fig. 14)



(fig. 9)

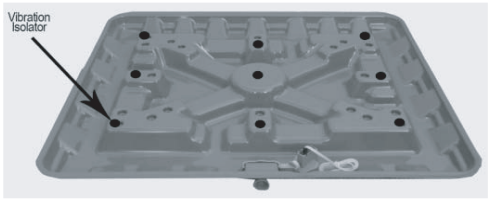


(fig. 10)

GOLIATH FURNACE DRAIN PAN VERTICAL INSTALLATION:

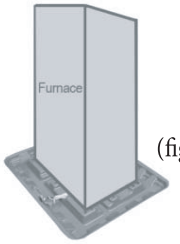
(To ensure proper performance of product, instructions must be followed.)

1. Inspect the drain pan for any shipping damage that may have occurred. If cracked or broken, DO NOT USE.
2. Make sure drain pan exceeds equipment dimensions by a minimum of 1.5" per side.
3. Make sure the pan-mounting surface is level and free of any debris.
4. Insert one rubber Vibration Isolator at each strategic support location where the appliance makes contact with the drain pan. NOTE: It is not necessary to fill all the vibration isolator receptacles. (fig. 11)
5. Position furnace in the center of the pan. (fig. 12)
6. Refer to manufacturer's instructions regarding "zero clearance" specifications. Optional AG-MJ1 Riser Kit may be used to achieve additional 1" clearance between furnace and pan.
   IMPORTANT! When brazing, take precautions to prevent pan from coming in contact with torch heat or brazing materials. It's recommended that a damp cloth be placed under the lines being brazed.



(fig. 11)

NOTE: Must use vibration Isolators



(fig. 12)

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

STOP/READ: This device must be installed in accordance with manufacturer's instructions. This unit must be in accordance with all applicable local plumbing, drainage and electrical codes.

WARNING: Remove electrical shock hazard – DISCONNECT THE POWER BEFORE INSTALLATION to avoid electrical shock and/or equipment damage. Do not use on circuits exceeding 24 volts to avoid damage to switch, shock or fire hazard.

- In any installation where property damage and/or personal injury might result from an inoperative switch, a back-up system(s) and or alarm should be installed.
- The AquaGuard Drain pans and sensores must only be installed by a licensed contractor or under the direct supervision of one. Condensation pan must be properly maintained after installation and be kept free from foreign objects, rust or other obstructions that might interfere with the proper operation of the AquaGuard sensor. AG-4100E, AG-4200E & AG-4300E Sensor/Drain Installation for Titan, Goliath Value, Goliath and Goliath Furnace Drain Pans

RECTORSEAL

2601 Spenwick Drive, Houston, TX 77055
(P) 800-231-3345 (F) 800-441-0051 www.rectorseal.com

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 petroleum-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

24 VAC, 5 amps

RectorSeal® Houston, TX USA www.rectorseal.com US Patent 8,578,770; 8,317,169