RECTORSEAL
A CSW Industrials Company

INSTALLATION INSTRUCTIONS

AQUAGUARD® 4200E
Water Sensor & Drain Port

WORK SAFE, READ THIS

⚠ WARNING 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.

⚠ 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.**

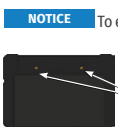
NOTICE In any installation where property damage and/or personal injury might result from an inoperative switch, a back-up system(s) and/or alarm should be installed.

NOTICE The AquaGuard Drain pans and sensors 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-4200E sensor/drain installation for Titan, Goliath and Goliath Furnace drain pans.

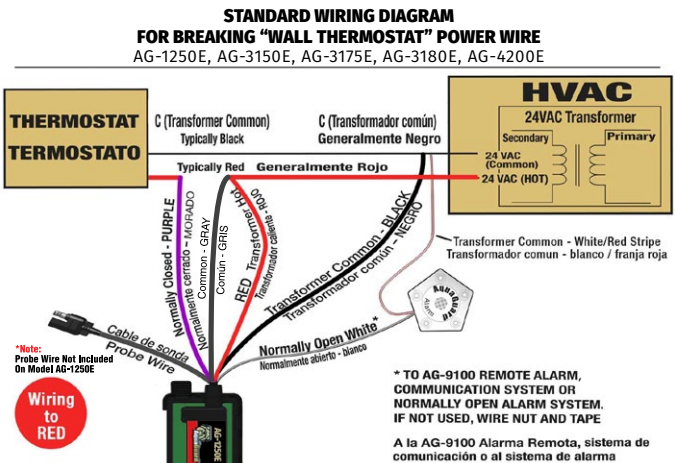
STOP/READ This device must be installed in accordance with manufacturer's instructions. This unit must be in accordance with all applicable local plumbing, drainage and electrical codes.

Wiring the AG-1250E:

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

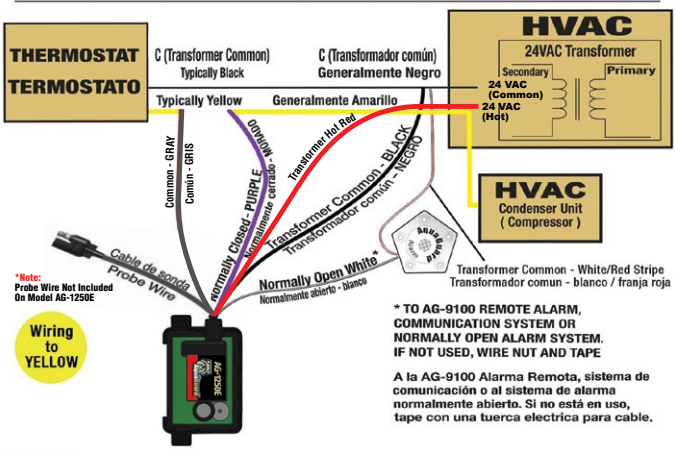


STANDARD WIRING DIAGRAM
FOR BREAKING "WALL THERMOSTAT" POWER WIRE
AG-1250E, AG-3150E, AG-3175E, AG-3180E, AG-4200E



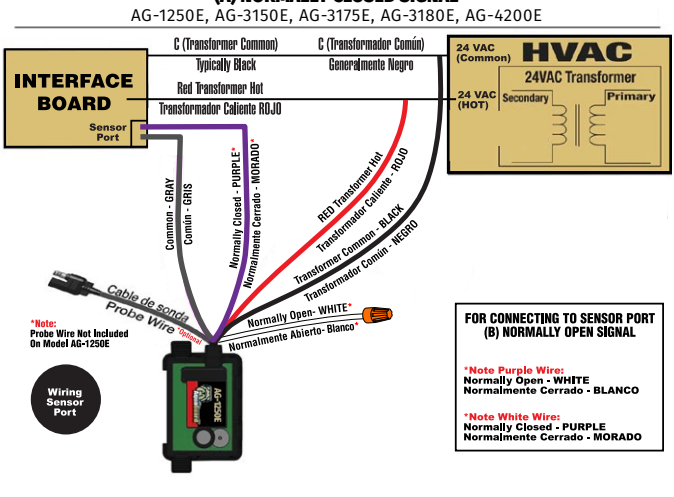
1. In HVAC Unit locate HVAC Power wire going to "Wall Thermostat", (Typically RED). Break/Disconnect 24VAC Power wire going to "Wall Thermostat".
   A. Connect "RED", "Input 24VAC (Hot)" and "Gray" "Common" wire of AG-1250E to 24VAC (Hot) secondary side of 24VAC Transformer.
   B. Connect "Purple", "Normally Closed" wire of AG-1250E to Thermostat's "R" Terminal wire. **NOTE: "Purple" wire must be connected to "Thermostat". Maximum capacity 24VAC/5Amp.**
   C. Connect "BLACK", "Input: 24VAC (Common)" wire of AG-1250E to 24VAC (COMMON) secondary side of 24VAC Transformer or Thermostat's "C"Terminal.
   D. Optional: 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... If not used, wire nut and tape. **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 sensor. **NOTE: When the AG-1250E is wired correctly, the HVAC unit will shut off upon condensate detection.**

OPTIONAL WIRING DIAGRAM
FOR BREAKING COMPRESSOR WIRE
AG-1250E, AG-3150E, AG-3175E, AG-3180E, AG-4200E



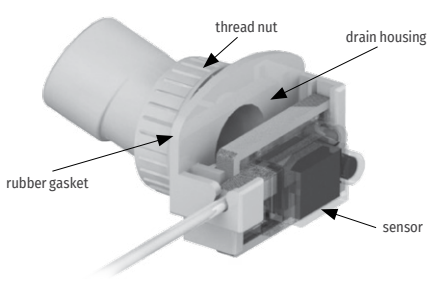
1. In HVAC Unit locate Compressor wire going to "Wall Thermostat", (Typically YELLOW). Break/Disconnect Compressor wire going to "Wall Thermostat".
   A. Connect typically "YELLOW" wire, going to "Wall Thermostat" to "Gray" "Common" wires of AG-1250E.
   B. Connect "Purple", "Normally Closed" wire of 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 "RED", "Input: 24VAC (HOT)" wire of AG-1250E to 24VAC (HOT) of 2 VAC Transformer or Thermostat's "R"Terminal.
   D. Connect "BLACK", "Input: 24VAC (Common) wire of AG-1250E to 24VAC (Common) secondary side of 24VAC Transformer or Thermostat's "C" terminal.
   E. Optional: 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... If not used, wire nut and tape. **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 sensor. **NOTE: When the AG-1250E is wired correctly, (ONLY) the Compressor unit will shut-off upon condensate detection. Air Handler will continue to run.**

FOR CONNECTING TO SENSOR PORT
(A) NORMALLY CLOSED SIGNAL
AG-1250E, AG-3150E, AG-3175E, AG-3180E, AG-4200E



Drain fitting and sensor installation

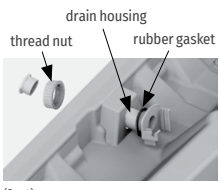
1. Remove the threaded nut from the drain housing/ sensor carrier. (fig. 1)



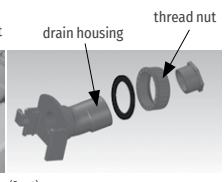
(fig. 1)

2. Install the drain housing from inside the pan MAKING SURE THE RUBBER GASKET IS 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)
4. Place the WARNING sticker on HVAC unit in a clearly visible location.

5. Test sensor: Place sensor in secondary pan and add enough water to the pan to cover contacts (approximately ¼"). LED will illuminate and HVAC unit will stop running if wired correctly.



(fig. 2)

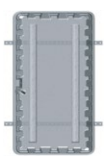


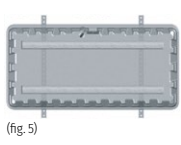
(fig. 3)

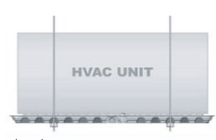
TITAN drain pan installation:

(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. (fig. 5, 6)
   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. 4)


(fig. 5)



(fig. 6)

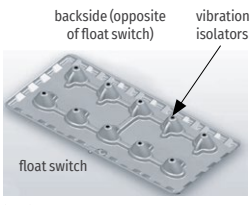
GOLIATH FURNACE horizontal drain pan installation:

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

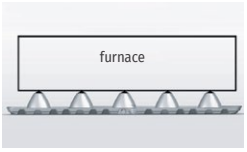
1. Refer to Furnace/Air handler instructions prior to installation.
2. Inspect the drain pan for any shipping damage that may have occurred. If cracked or broken, DO NOT USE.
3. Make sure drain pan exceeds equipment dimensions by a minimum of 1.5" per side.
4. Make sure the pan-mounting surface is level and free of any debris.
5. Insert rubber Vibration Isolator (Goliath and Goliath Furnace series only) in the most appropriate support receptacles (fig. 7). It is not necessary to fill every receptacle.
6. Position air handler in the center of the pan. (fig. 8)
7. For Goliath Furnace drain pan installations, refer to manufacturer's instructions regarding clearance specifications.
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. 7)

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 Furnace series drain pans are not designed for hanging applications.



(fig. 7)

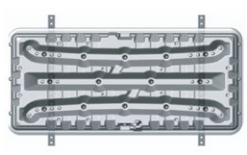


(fig. 8)

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.
4. Insert rubber Vibration Isolator (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. Safety 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. (fig. 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.

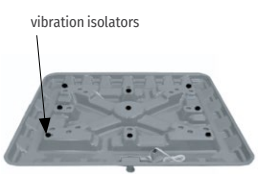

(fig. 9)

(fig. 10)

GOLIATH FURNACE vertical drain pan installation:

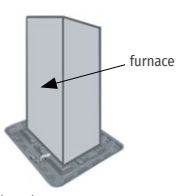
(To ensure proper performance of product, instructions must be followed).

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. 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.
   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 5 Amps @ 24VAC - Red to Purple; Relay normally open contact 1 Amp @ 24VAC - Red to White.

Limited Warranty

3YR LIMITED WARRANTY

For more information on our product limited warranty, visit RectorSeal.com

c UL us 24 Volt AC, 5 Amp, GP, Use in CLass 2 (Thermostat) Circuit Only

Easy pan mounting to **GOLIATH AND TITAN pans**

Manufactured by
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