RESOURCE
CONSERVATION TECHNOLOGIES

On Duty 24/7 AquaGuard® **Goliath** **Titan** **SPARTAN** NON-HANGABLE

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Engineering a Better Tomorrow

At Resource Conservation Technologies, Inc. (RCT), we are committed to engineering new and innovative ways to address the increased worldwide demands of our natural resources. Through research, analysis and product development, we have designed and introduced products that effectively monitor and arrest the necessary by-products of the HVAC and plumbing industries since 2001.

By pioneering new disciplines and developing inventive concepts, RCT has become a ground-breaking industry leader in conservation technologies.

In 2005, RCT released our first condensate management float switch, the AquaGuard AG-1, which offered unique and revolutionary features for condensate overflow switches in the HVAC/R industry. The AquaGuard AG-1 introduced the same reliable reed switch technology that was used to deploy airbags in the US Automobile Industry and was the first float switch that featured a protective cover to keep out insulation and debris, which could prevent the float from rising. The AquaGuard AG-1 also featured an innovative, quick and easy three-thumbscrew mounting bracket that eliminated the need to drill a hole into a unit's drain pan during installation.

In 2007, we expanded and launched our main manufacturing division in Monticello, Florida, which extrudes and thermoforms our patented proprietary blend of plastics known as DexElar. Today, all of our Goliath, Goliath Furnace, Titan, and Spartan Series product lines of secondary drain pans and furnace riser kits are MADE WITH PRIDE IN THE USA. Our manufacturing processes utilize state-of-the-art machinery, which produce virtually no waste, while still yielding the highest quality line of products.

RCT has also recently expanded into the plumbing industry with the introduction of our Goliath Water Heater HW24 Drain Pan, AquaGrip Ultimate Pipe Clamp, and a specialty water heater leak sensor and audible alarm, the AG-5100HW, for hot water tanks. We are currently working with the International Building Code to make this type of product a requirement on all hot water tanks.

Innovations, like the ones first found on the AquaGuard AG-1, and our continuing commitment to our higher standards have led to the development and expansion of the AquaGuard product line into our 1000, 2000, 3000, 4000, and 9000 Series of Condensate Management Systems. With our relentless commitment to make things better, RCT continues to develop and improve upon our AquaGuard Condensate Management Systems for the HVAC/R industry.

This year, our AquaGuard Condensate Management Systems are once again introducing new and improved products that will revolutionize our industry. These new products, which feature Smart Sensor Technology, include the AG-1100E, AG-1250E, AG-3150E, AG-3175E, AG-3180E, and the AG-9300 Series for Mini-Split and Duct-Free Systems.

Our unique product lines consistently and continuously demonstrate the utmost strength, the greatest durability, and the most reliable performance available on the market today. With a broad range of products designed specifically to conserve precious natural resources, RCT is recognized as a necessary and key contributor to the ideas and advancements of sustainable conservation technologies.

Incorporating the advantages of science with natural intuition, it is our goal to continuously seek out new and improved methods to manage our most valuable resource – H2O. Hand-in-hand with our distributors and customers, we are developing the next generation of answers to the challenges we all face conserving today's resources. At Resource Conservation Technologies, Inc., we are Engineering a Better Tomorrow.

AquaGuard®
Secondary Drain Pans

AquaGuard secondary drain pans are engineered to be the strongest and most versatile pans available for those who desire a truly professional HVAC installation. All of AquaGuards secondary drain pans are constructed with DexElar® to ensure every pan is crack and flame resistant and over two and a half times stronger than typical plastic pans. DexElar is an incredibly strong and resilient material that has a high tensile strength and can withstand extreme temperatures (-40 °F to 260 °F). All AquaGuard brand secondary drain pans include an AG-4000 series float switch system. Pans meet or exceed all international product building codes. DexElar material is UL-94 5VA and ASTM E-84 Class C compliant.

Product Specs
- UL LISTED (UL 508)
- NORMALLY CLOSED OR NORMALLY OPEN
- VERTICAL TRIGGER DEPTH MIN. OF ½ INCH
- VOLTAGE RATING: 24VAC, 5.0A
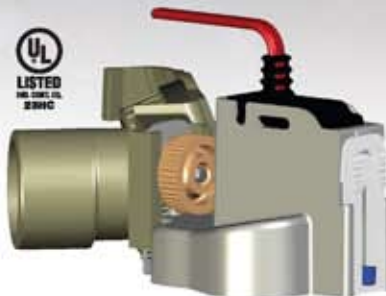
Key Features
- High-amperage float switch with integrated drain housing
- Adjustable float sensitivity
- Included with all Titan, Spartan and Goliath series pans
- Residential and commercial use

AG–4000 Series (Included with all AG Drain Pans)
Magnetic Float Switch System for AquaGuard Secondary Drain Pans

AquaGuard float switch systems are the best way to insure the protection of your structure from the damage of condensate overflow. The 4000 series float switches, combined with an AquaGuard brand secondary drain pan, provide protection against unforseen events that could cause water damage to your structure. UL 508 listed.

Titan Series (Retro-Fit)

3 YEAR LIMITED WARRANTY

The Better Alternative to Metal

The Titan series secondary drain pan can be used when space requirements are tight. Titan is more flexible and durable than fabricated metal or plastic pans. You can be sure the Titan will not rust. Titan pans are available in a range of sizes to accommodate most HVAC installations. Each Titan drain pan includes an AG-4100 float switch and drain system. Titan meets or exceeds all international building codes. DexElar® material is UL-94 5VA and ASTM E-84 Class C compliant. 3 year limited warranty.

Example of Titan 30x62

Sizes Available

- Titan 24 x 24
- Titan 26 x 26
- Titan 30 x 30
- Titan 32 x 32
- Titan 30 x 50
- Titan 30 x 62

MADE WITH PRIDE IN THE U.S.A

Key Features

- Flexible enough to fold in tight installations while still maintaining rigidity.

- Unlike metal drain pans, Titan pans will not rust and have no corner seams to leak.

Titans are not only stronger than metal pans but they are more flexible too. The Titan can be bent to fit into tight spaces yet is durable enough to maintain rigidity and return to its original state.
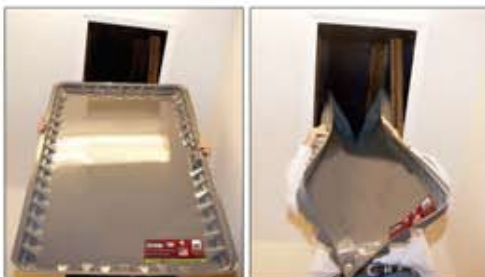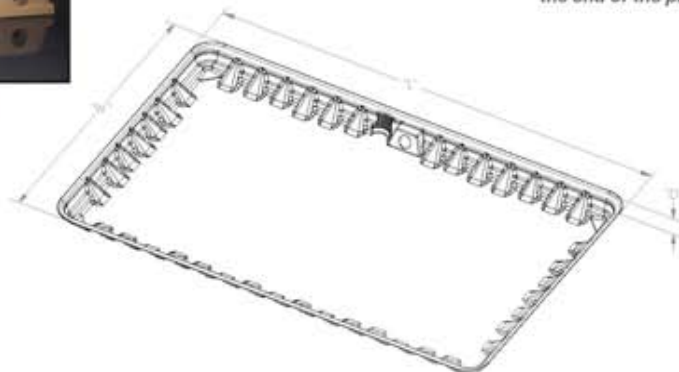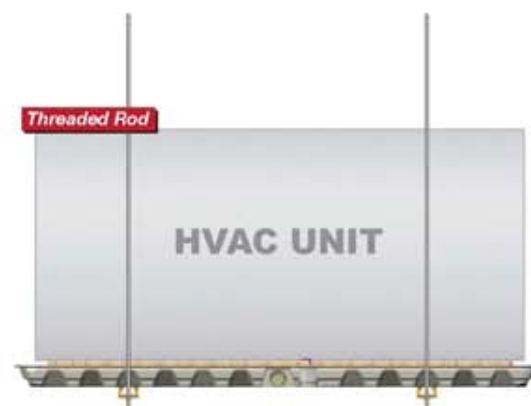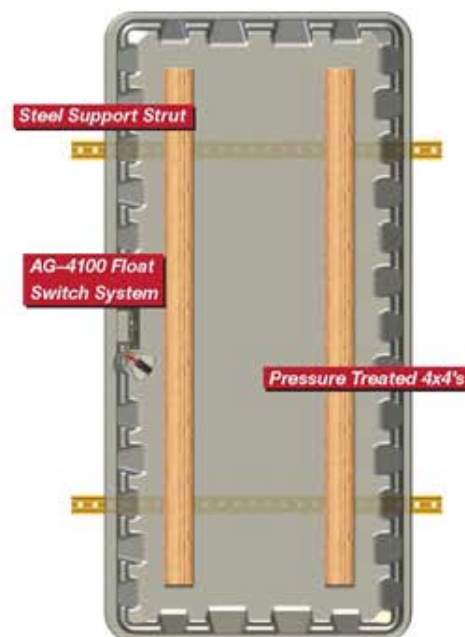
The AG–4100 float switch system included with every Titan pan.

Example of Titan 30x62

Example of Titan 26x26

Threaded Rod

HVAC UNIT

Titan pans may be hung only if they are properly configured in the following manner:*

1.) Two pressure treated 4x4 boards running the full length of the pan must be placed between the HVAC unit and the pan.

2.) Approved steel supports are to be placed 6" to 8" from the end of the pressure treated 4x4 as shown.

Steel Support Strut

AG–4100 Float Switch System

Pressure Treated 4x4's

TITAN SERIES						
PAN SIZE	OUTER (MAX) DIMENSION			INSIDE (DRIP AREA) DIMENSION		
	"L" LENGTH	"W" WIDTH	"D" DEPTH	"l" length	"w" width	"d" depth
24x24	24.0"	24.0"	2.25"	20.0"	20.5"	2.25"
26x26	26.0"	26.0"	2.25"	22.0"	22.5"	2.25"
30x30	30.0"	30.0"	2.25"	26.0"	26.5"	2.25"
32x32	32.0"	32.0"	2.25"	28.0"	28.5"	2.25"
30x50'	50.5"	30.25"	2.5"	45.0"	22.75"	2.5"
30x62'	63.0"	30.375"	2.5"	56.875"	22.75"	2.5"

This information is provided for reference only. All other materials not supplied by Resource Conservation Technologies, Inc. should be approved by a local building official and/or a licensed engineer. In addition, installation methods and safety are the responsibility of the contractor installing the system.

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Sizes Available

- *Spartan Non-Hangable*
  30 x 50 x 4.00

- *Spartan Non-Hangable*
  30 x 62 x 4.25

The AG–4200 float switch system and 14 vibration isolators included with every Spartan pan.

Example of Spartan 30x62

HVAC UNIT

Spartan Non–Hangable secondary drain pans are to be used only for fixed placement HVAC installations and must be supported by a solid surface and are not to be hung in any application.

VI-4200 vibration isolators included with all Goliath and Spartan Series pans.

Included AG-4200 Water Sensing System

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Spartan Non-Hangable

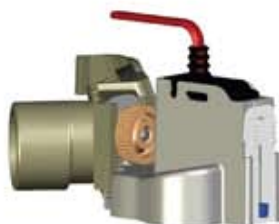## The Strongest Value-Priced Pan

The Spartan Non-Hangable pan has all the benefits of the Goliath, yet is the affordable solution for fixed placement, solid surface applications, where hanging is not necessary. Spartan is constructed of durable DexElar® material that is crack resistant, fire resistant and extreme temperature resistant. Spartan Non-Hangable pans come in two popular sizes, 30"W x 50"L and 30"W x 62"L and include the AG-4200 float switch and drain system as well as 14 vibration isolators. Spartan meets or exceeds all international building codes. DexElar material is UL-94 5VA and ASTM E-84 Class C compliant. 5 year limited warranty.
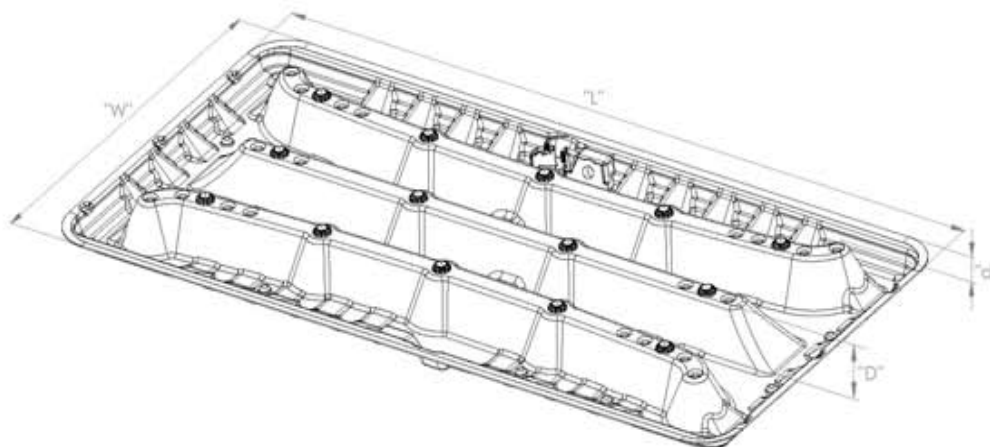
Key Features

- The Spartan Non-Hangable is as strong as the Goliath for fixed placement installations, but at a lower price.

- Spartan is the complete system for a professional air handler installation.

- Save time on your next installation – no need to hunt for support blocks and a float switch.

SPARTAN NON-HANGABLE SERIES						
PAN SIZE	OUTER (MAX) DIMENSION			INSIDE (DRIP AREA) DIMENSION		
	"L" LENGTH	"W" WIDTH	"D" DEPTH	"l" length	"w" width	"d" depth
30x50	50.625"	30.25"	4.00"	45.25"	22.75"	2.1"
30x62	63.0"	30.375"	4.25"	56.875"	22.75"	2.1"

Goliath Series

The Professional's Choice

The Goliath, true to its name, is the strongest, most rugged HVAC secondary pan on the market. All of the benefits of the DexElar® material combine with engineered structural strength to produce a nearly indestructible drain pan. Goliath series pans include the AG-4200 float switch and drain system as well as 14 vibration isolators that can quiet noisy HVAC units. Goliath meets or exceeds all international building codes. DexElar® material is UL-94 5VA and ASTM E-84 Class C compliant. 10 year limited warranty.

Sizes Available

- Goliath 26 x 56 x 2.75
- Goliath 28 x 57 x 5.25
- Goliath 28 x 69 x 4.25
- Goliath 30 x 50 x 4.00
- Goliath 30 x 62 x 4.25

The AG-4200 float switch system and 14 vibration isolators included with every Goliath pan.

Example of Goliath 30x62
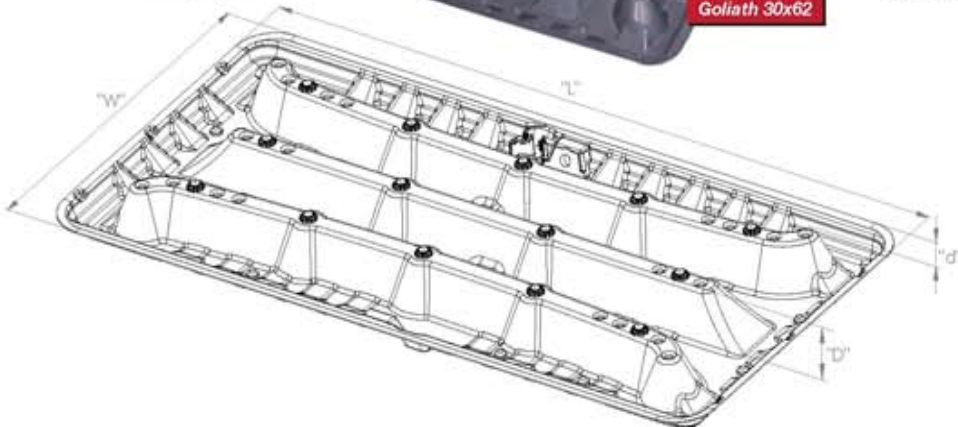
MADE WITH PRIDE
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Key Features

- Save time on your next installation – no need to hunt for support blocks and a float switch.

- Goliath is the complete system for a professional air handler installation.

- All Goliath pans are strong enough to hang using only one pair of steel support struts.

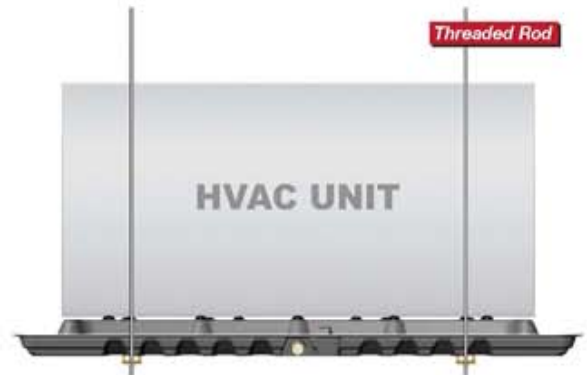*Included AG-4200 Water Sensing System*

Example of Goliath 30x62

Threaded Rod

HVAC UNIT

Goliath pans may be hung using only one set of support struts in the following manner:*

1.) HVAC Unit to be placed on top of Goliath pan resting on the vibration isolators.

2.) Approved steel supports are to be placed at least 8" to 10" from the end of the pan.

Steel Support Strut

AG–4200 Float Switch System
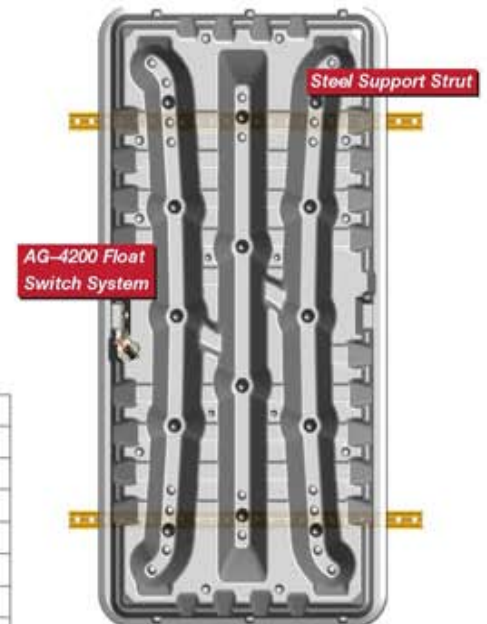
	GOLIATH SERIES					
PAN SIZE	OUTER (MAX) DIMENSION			INSIDE (DRIP AREA) DIMENSION		
	"L" LENGTH	"W" WIDTH	"D" DEPTH	"I" length	"w" width	"d" depth
26x56	56.625"	26.5"	2.75"	51.0"	19.5"	2.0"
28x57	57.25"	28.375"	5.25"	51.75"	21.5"	2.0"
28x69	69.125"	28.25"	4.25"	66.5"	26.0"	2.0"
30x50	50.5"	30.25"	4.00"	45.0"	22.75"	2.1"
30x62	63.0"	30.375"	4.25"	56.875"	22.75"	2.1"

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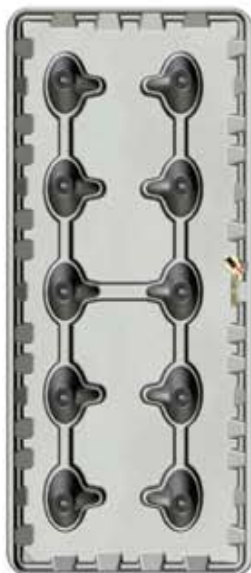
Sizes Available

- *Goliath Furnace*
  30 x 36 x 3.00
- *Goliath Furnace*
  34 x 64 x 7.50
- *Goliath Furnace*
  34 x 79 x 7.50

The AG–4300 float switch system and 10 vibration isolators included with every Goliath Furnace pan.

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Example of Goliath Furnace 34x79

Goliath Furnace

10 YEAR LIMITED WARRANTY

The Hottest Pan on the Market

The Goliath Furnace has all of the benefits of the Goliath, but is designed specifically for the unique needs of a furnace installation. With 7" of clearance, the 34x64 and 34x79 Goliath Furnace pans allows ample room for piping that needs to run below the furnace unit especially with condensing furnace installations. All Goliath Furnace pans include the AG-4300 float switch and drain system as well as 10 vibration isolators. Goliath Furnace meets or exceeds all international building codes. DexElar® material is UL-94 5VA and ASTM E-84 Class C compliant. 10 year limited warranty.

Key Features

- Extreme temperature resistance - Goliath durability and load-bearing strength.

- Includes vibration isolators to quiet noisy furnace units.

- Horizontal pan design includes ample room for p-traps and gas lines.

FURNACE UNIT

7"

7" Rise Under Unit

With 7" of clearance, the Goliath Furnace pan allows ample room for piping that needs to run below the furnace unit.

Goliath Furnace 30x36 for vertical, upflow application

Included AG-4300 Water Sensing System

"W"   "L"   "d"

"D"

VI-4300 vibration isolators included with all Goliath Furnace pans

PAN SIZE	GOLIATH FURNACE SERIES					
	OUTER (MAX) DIMENSION			INSIDE (DRIP AREA) DIMENSION		
	"L" LENGTH	"W" WIDTH	"D" DEPTH	"l" length	"w" width	"d" depth
30x36	37.5"	30.5"	3.00"	30.75"	23.0"	2.375"
34x64	64.125"	34.125"	7.50"	59.0"	26.75"	2.1"
34x79	79.0"	33.75"	7.50"	73.5"	26.5"	2.1"

Goliath Furnace

3 YEAR LIMITED WARRANTY

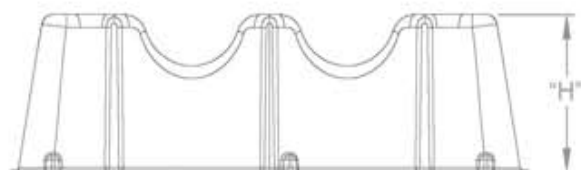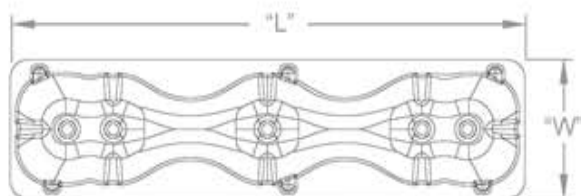**NEW** Goliath Furnace Riser Kits

The Strongest, Most Durable Furnace Riser Kits Available

The new Goliath Furnace Riser (GFR) is the perfect solution for any furnace installation. GFRs raise furnaces providing clearance to accommodate piping and p-traps. There are now three sizes, GFR 28x6, GFR 23x4 and GFR 23x7 to accommodate your furnace installation needs. Installation is quick, the GFRs are made to fit either lengthwise or widthwise in our Titan pans or fabricted metal pans. DexElar® material is UL-94 5VA and ASTM E-84 Class C compliant and stronger than competing metal risers.

Sizes Available

- GFR 23 x 4
- GFR 23 x 7
- GFR 28 x 6

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Key Features

- Constructed of DexElar®, the same durable material as Titan and Goliath HVAC secondary drain pans.

- Available vibration isolators quiet noisy furnace units.

- Will not rust or crack and provides 10x the strength as metal risers.

- Designed to work with our Titan drain pan line, metal pans or stand alone.

Example configuration of GFR 23x4 risers placed in a Titan 30x62 pan

Pan not included

NEW GFR-VI vibration isolator design provides increased stability

Pan not included

"L"

"W"

"H"

Example configuration of GFR 23x4 risers placed in a Titan 30x62 pan
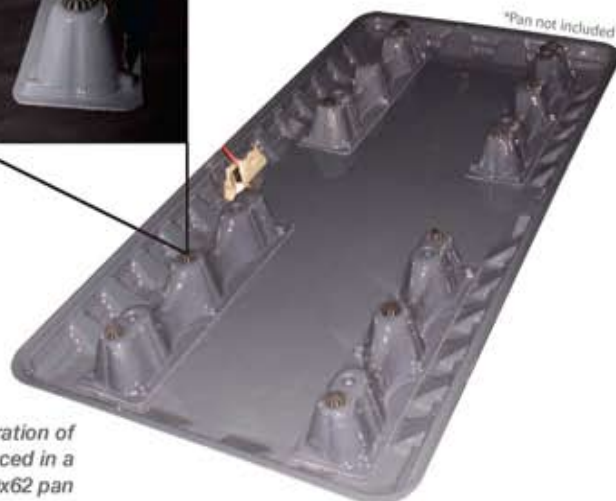
Example configuration of GFR 23x4 risers placed in a Titan 26x26 pan

Pan not included

GOLIATH FURNACE RISERS			
MODEL	OUTER (MAX) DIMENSION		
	LENGTH	WIDTH	HEIGHT
GFR 28x6	28.5"	7.5"	6.0"
GFR 23x4	22.5"	5.75"	3.625"
GFR 23x7	22.5"	5.75"	6.50"

*This information is only applicable to Titan Series pans made after 2009 that do not include the water displacement bubble in the center of the pan.

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Goliath HW24
The Strongest, Most Durable Water Heater Drain Pan Available

The Goliath HW24 is made from the same durable material as the Goliath HVAC pans. The Goliath HW will easily support the weight of your water heater tank and will not crack or rust. This pan will fit most standard electric water heater tanks.

Key Features
- Same strength as our popular Goliath HVAC pans
- Made from DexElar which can withstand temperatures up to 260º
- Lifts tank 2 inches from surface of pan so it will not sit in water and rust

Secondary Pan Accessories

GFR-VI
Vibration Isolators for the Goliath Furnace Riser Series

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The GFR-VI vibration isolators are made of heat resistant, durable rubber that can dampen the noise produced by an HVAC unit while in use. The GFR-VI are available for use with the Goliath Furnace Risers.

VI-4200
Vibration Isolators for Goliath & Spartan Series Secondary Drain Pans

The VI-4200 vibration isolators are made of heat resistant, durable rubber that can dampen the noise produced by an HVAC unit while in use. The VI-4200 are included with all AG–4200 Float Switch Systems for Goliath & Spartan series secondary drain pans.

VI-4300
Vibration Isolators for Goliath Furnace Series Secondary Drain Pans

The VI-4300 vibration isolators are made of heat resistant, durable rubber that can dampen the noise produced by an HVAC unit while in use. The VI-4300 are included with all AG–4300 Float Switch Systems for Goliath Furnace series secondary drain pans.

Strength through Technology

What is DexElar?

DexElar is an advanced polymer which possesses outstanding rigidity and stability and can be formulated for a wide variety of applications.

DexElar's unique qualities can improve the performance of products we use every day. This innovative material can give product designers the versatility to substitute traditional materials and recreate products in a completely new way.

Extreme Temperature Durability

DexElar is resilient enough to withstand extreme conditions between -40 ºF to 260 ºF. The thermo-deflection temperature is the point at which material begins to soften.

DexElar's thermo-deflection temperature is between 290 and 310 degrees with an ASTM E-84 Class C rating*. The high melting point and self-extinguishing characteristics make DexElar a safer and more reliable material of choice.

High Load Bearing and Tensile Strength

DexElar is also an incredibly strong material. As one of the strongest materials available on the market DexElar is not only an extreme load bearer, but also provides high tensile strength at a yield of 8,900 psi.

High Impact Resistance

DexElar is a virtually unbreakable material and is a significant improvement over the impact resistance of plastic and ABS polymer materials. DexElar's Notched IZOD (Hardness) rating is over 450 in/lbs.

DexElar has over 200 times the impact strength of normal glass and 30 times that of Acrylic. The material's "tough as steel" resistance to cracking makes it ideal for applications where the product may experience vandalism or punishment.
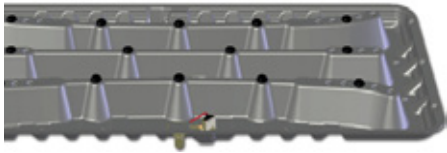
*Material is in compliance with UL–94 5VA and ASTM E–84 Class C

DRAIN PAN
SELECTION CHART

Goliath Titan SPARTAN NON-HANGABLE

Secondary Pan Model	Pan Size	External Pan Size			Max Unit Size		Recommended Application
Goliath Series		Width	Length	Height	Width	Length	
	30x50	28.38"	50.50"	5.25"	25.38"	54.25"	*Hangable*
	30x62	28.25"	69.13"	4.25"	26.00"	66.50"	*When additional clearance is needed under air handler for drain.*
	28x57	30.25"	57.25"	4.00"	27.25"	47.50"	*General Purpose for both furnace and air handler installation.*
	28x69	30.38"	63.00"	4.25"	27.38"	60.00"	
Goliath Low Profile		Width	Length	Height	Width	Length	
	26x56	56.63"	26.50"	2.75"	23.50"	53.63"	*Hangable* *When space is at a minimum in a garage or attic.*
Goliath Furnace Series		Width	Length	Height	Width	Length	
	30x36	30.50"	37.50"	3.00"	27.50"	34.50"	*Non-Hangable* *For Vertical, upflow installation of furnace or air handler.*
Goliath Furnace Series		Width	Length	Height	Width	Length	
	34x64	34.13"	64.13"	7.50"	31.13"	61.13"	*Non-Hangable* *When greater clearance height is needed to accomodate piping under furnace.*
	34x79	33.75"	79.00"	7.50"	30.75"	76.00"	
Spartan Non-Hangable		Width	Length	Height	Width	Length	
	30x50	30.25"	50.50"	4.00"	27.25"	47.50"	*Non-Hangable* *General purpose for air handler installation.*
	30x62	30.38"	63.00"	4.25"	27.38"	60.00"	
Titan Flexible Series		Width	Length	Height	Width	Length	
	24x24	24.00"	24.00"	2.25"	20.00"	20.50"	*Non-Hangable*
	26x26	26.00"	26.00"	2.25"	22.00"	22.50"	*Flexible and durable enough to bend and fit into tight spaces.*
	30x30	30.00"	30.00"	2.25"	26.00"	26.50"	
	32x32	32.00"	32.00"	2.25"	28.00"	28.50"	
Titan Flexible Series		Width	Length	Height	Width	Length	
	30x50	30.25"	50.50"	2.50"	27.25"	47.50"	*Hangable* *Flexible and durable enough to bend and fit into tight spaces.*
	30x62	30.38"	63.00"	2.50"	27.38"	60.00"	

RESOURCE
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SENSOR
SELECTION CHART

Sensor Model	Switching Type	Amperage Load Capacity	Trigger Depth	Recommended Application	Plenum Rated
AG-1100+	Magnetic	24VAC, 5.0A	1/2"	Metal Secondary Pan	No
AG-1200+	Magnetic	24VAC, 5.0A	1/2"	Metal/Plastic Secondary Pan	No
AG-1100E	Electronic	24VAC, 5.0A	1/16"	Metal Secondary Pan	No
AG-1175E	Electronic	24VAC, 5.0A	1/16"	Metal Secondary Pan	Yes
AG-1250E	Electronic	24VAC, 5.0A	1/16"	Metal/Plastic Secondary Pan Floors, Walls, Basement	No
AG-3150E	Electronic	24VAC, 5.0A	1/16"	Primary Pan Auxiliary Drain/ Secondary Pan	No
AG-3175E	Electronic	24VAC, 5.0A	1/16"	Primary Pan Auxiliary Drain/ Secondary Pan	Yes
AG-3180E	Electronic	24VAC, 5.0A	1/16"	Primary Pan/ Secondary Pan	Yes
AG-9300Series	Electronic	110VAC, 1.0A	1/16"	Primary Pan of Mini-Split or Duct Free Systems	No
AG-2550E	Electronic	24VAC, 5.0A	1/2" 1/16"	Primary Drain Line/ Secondary Pan	No
AG-3575E	Electronic	24VAC, 5.0A	1/2" 1/16" 1/16"	Primary Drain Line/ Primary Pan/ Secondary Pan	Yes

AquaGuard®
Water Sensing Systems

AquaGuard premium brand float switch systems are always one step ahead. Water damage due to condensation overflow can be a costly and unwelcome event. AquaGuard water sensing systems protect structures and provide peace of mind to their owners. Crafted from advanced composits and water tight electronics, AquaGuard switches will not corrode or fail due to moisture exposure. All AquaGuard float switch systems are easy to install in just minutes.
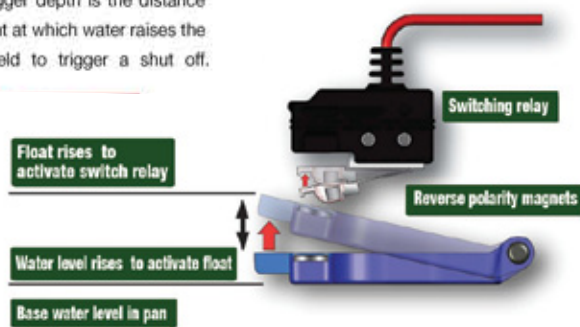
What's Under the Hood?

Electronic Trigger System

In an **electronic trigger** system the vertical trigger depth is the distance from the surface of the secondary drain pan to the contact sensors on the switch. AquaGuard electronic sensors contain no floats or any other moving parts that can be inhibited by debris. This high level of fault tolerance makes electronic trigger systems much more reliable. The 5 amp carrying capacity combined with a water detection LED and simple push to test button make our electronic water sensors the perfect solution for smaller residential or larger commercial applications.

AG-1175E

Magnetic Trigger System

In a **magnetic trigger** system the vertical trigger depth is the distance from the resting position of the float to the point at which water raises the float enough for the opposing magnetic field to trigger a shut off. AquaGuard magnetic trigger systems contain sensitivity adjustments as low as 1/2" of water in the secondary pan. The highly bouyant float combined with the precision of the magnetic switch provide reliability that is a perfect solution for residential and commercial applications and the 5 amp carrying capacity ensures protection against power fluctuations.

Switching relay

Float rises to activate switch relay

Reverse polarity magnets

Water level rises to activate float

Base water level in pan

Metal/Plastic Secondary Pan Sensors

IMPROVED AG–1100+
Float Switch System for Metal Secondary Drain Pans

The AG-1100+ is incredibly easy to install. It can be mounted to the drain pan in 10 seconds or less. Installation does not require intrusion into the pan. The AG-1100+ incorporates a protective cover to keep out insulation and debris that could prevent the float from rising.
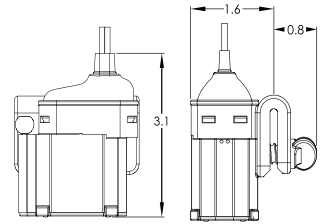
Key Features

• 5 amp high-capacity sensor designed for metal pans
• The industry leading float switch for metal drain pans
• Easy, no-drill installation
• Protective housing keeps out insulation and debris
• NEW Open circuit wiring option

Product Specs
• UL LISTED (UL 508)
• NORMALLY CLOSED OR NORMALLY OPEN
• VERTICAL TRIGGER DEPTH OF ¾ INCH
• VOLTAGE RATING: 24VAC, 5.0A

The AG-1100+ and AG-1200+ have an easy lift to test system to ensure sensor reliability.

To test switch operation lift test knob

IMPROVED AG–1200+
Magnetic Float Switch System for Metal and Plastic Secondary Pans

The AG-1200 + has all of the features of the 1100 + plus an innovative two-piece clamp design which allows it to be mounted to a metal drain pan (without a lip) or inferior, non-AquaGuard plastic drain pan (with a lip) in 10 seconds or less, without the need for a drain hole in the pan.

Key Features

• 5 amp high-capacity sensor designed for metal and plastic pans
• The industry leading float switch for metal and plastic drain pans
• Easy, no-drill installation
• Protective housing keeps out insulation and debris
• NEW Open circuit wiring option

Product Specs
• UL LISTED (UL 508)
• NORMALLY CLOSED OR NORMALLY OPEN
• VERTICAL TRIGGER DEPTH OF ¾ INCH
• VOLTAGE RATING: 24VAC, 5.0A
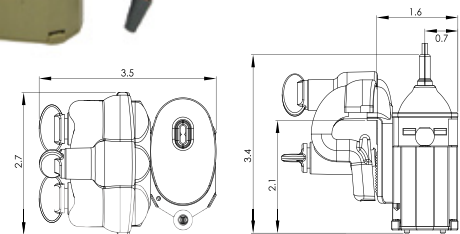
AG-1100E and AG-1175*E* (Plenum Rated)
Solid-State, Electronic Water Sensor for Metal Secondary Drain Pans

The AG-1175*E* is the most advanced electronic water sensing system available for any metal secondary drain pan. The solid–state probes can detect as little as 1/8th of an inch of water and the water detection LED *(AG-1175E Only)* will alert you to problems long before they can cause any damage.

Key Features

• No moving parts to jam or become clogged
• Solid–state, high amperage sensor
• Wire rated for plenum use
• Residential and commercial applications

AG-1175E

AG-1100E

Product Specs
• UL LISTED (UL 508)
• SWITCH IS NORMALLY CLOSED
• VERTICAL TRIGGER DEPTH OF 1/8 INCH
• VOLTAGE RATING: 24VAC, 5.0A
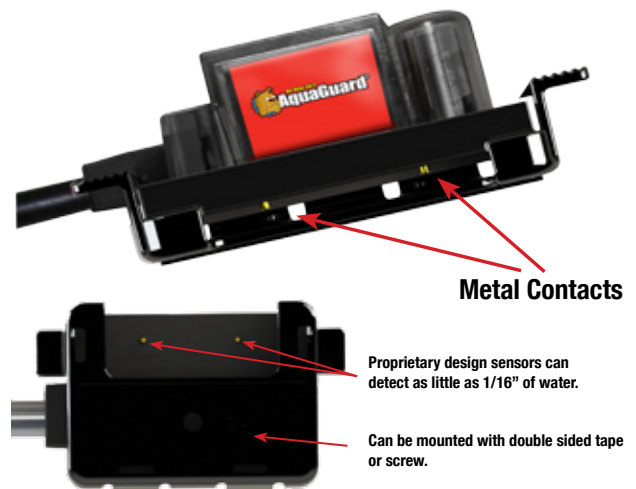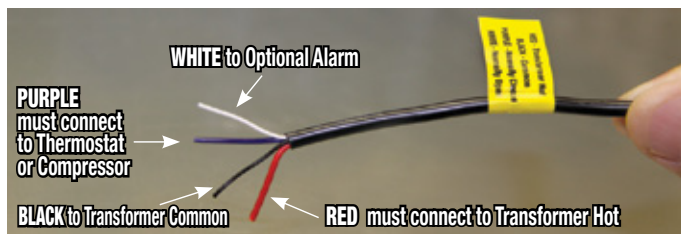
MULTIPURPOSE WATER SENSOR
METAL/PLASTIC SECONDARY DRAIN PANS

The AG-1250E multipurpose water sensor is mounted directly in a metal or plastic secondary pan, floor or wall. The AG-1250E is a high-amperage, solid state sensor with no moving parts to break down or become clogged. The low profile design makes it easy to install.

Features

- Normally Open 4th Wire for Optional External Alarm, Digital Controller or Energy Management Systems

- Sensor can be Normally Open or Normally Closed

- Versitile Mounting Options Allow Positioning on The Unit, in a Secondary Pan, on a Floor or on a Wall

- 5 Amp, 24 Volts AC Solid State Sensor

- 6 Feet of Control Wire

- Clip on Mounting Base for Easy Cleaning and Drying of Sensor

EASY INSTALLATION

WHITE to Optional Alarm

PURPLE must connect to Thermostat or Compressor

BLACK to Transformer Common

RED must connect to Transformer Hot

Metal Contacts

Proprietary design sensors can detect as little as 1/16" of water.

Can be mounted with double sided tape or screw.

For HIGHER sensitivity, place the AG-1250E flat on the bottom of either a metal or plastic pan. For LESS sensitivity, place the AG-1250E on the side of either a metal or plastic pan.
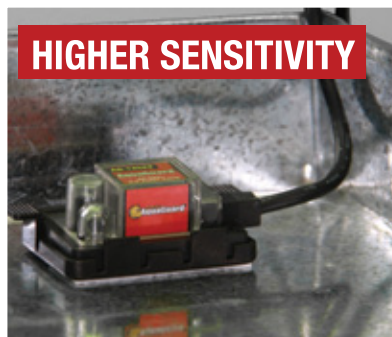
HIGHER SENSITIVITY

LESS SENSITIVITY
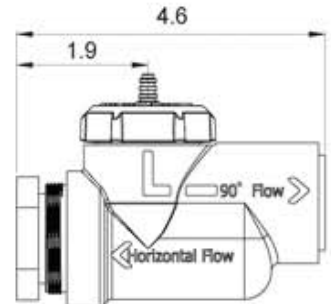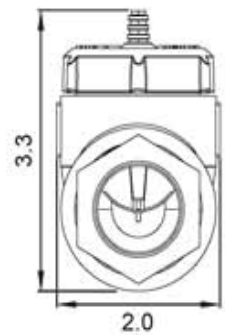
Electronic Water Sensors

IMPROVED AG–2550E

Electronic In-Line Water Sensor and Access Port for Primary Drain Lines

The AG–2550E electronic water sensor is located in-line on the primary drain line and is integrated with an access port for clearing and removing clog causing debris. The water sensor has no moving parts and the unique design of the insulated housing allows the application of chemicals to clean the drain without any worry of retrograde backflow into your HVAC unit.

Key Features

- Electronic in-line water sensor with insulated housing and access port
- Unobstructed 3/4" flow-switch does not impede drainage
- NEW Open circuit wiring option
- Integrated easy access port for cleaning out drain lines and adding chemicals

Water tight removable cap for maintaining electronic sensors and cleaning out clogged drain lines
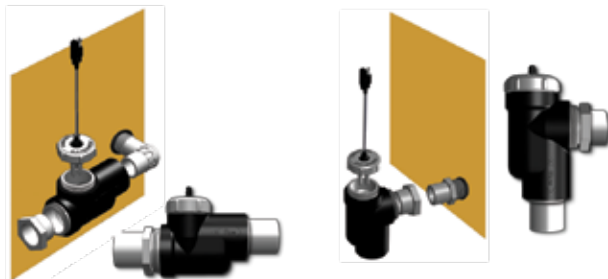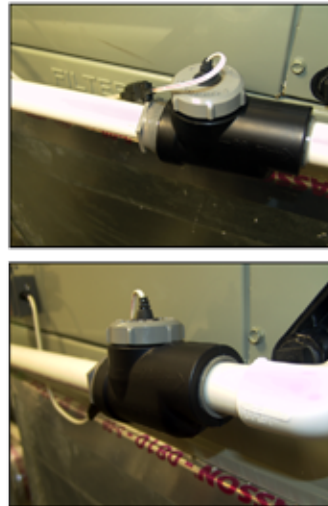
Elbow & Straight Coupling Adapters Included

Unobstructed flow prevents the sensor from actually causing a blockage
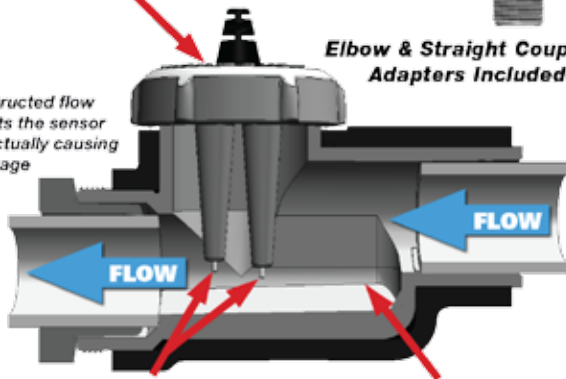
FLOW

FLOW

Electronic water sensors detect any condensate backed up in the drain line

Unique housing design prevents backflow when adding chemicals to clean the drain lines

3.3

2.0

4.6

1.9

90° Flow

Horizontal Flow

Water Sensing Systems

13

PRIMARY PAN SENSOR

PLUS BONUS SECONDARY SENSOR

The AG-3150E primary pan sensor is mounted directly in the auxiliary drain port of the primary pan. The AG-3150E is a high-amperage, solid state sensor with no moving parts to break down or become clogged. The low profile design makes it easy to install.

AG-3175E

PLENUM RATED
PRIMARY PAN SENSOR
PLUS BONUS SECONDARY SENSOR

Key Features

- Smart Sensor Technology (Patent Pending)
- Time Delay: Up to 60 Seconds On
- Redesigned Probe Sensor for Increased Reliability

- 6' of Probe Wire
- 6' of Standard Control Wire
- Compact Waterproof Design

- Bonus Secondary Sensor
- Water Detection LED
- UL 508 Approved

Option 1
More sensitive with dam

DAM
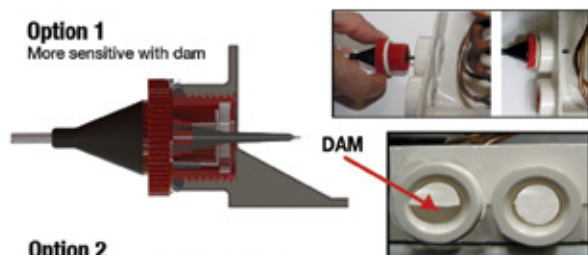
Option 2
Less sensitive alternate installation

Probe Sensor
(Mounted to Side of Unit)

Auxillary Drain Probe
(Inside Primary Pan)

Bonus Secondary Pan Sensor
(Inside Secondary Pan)
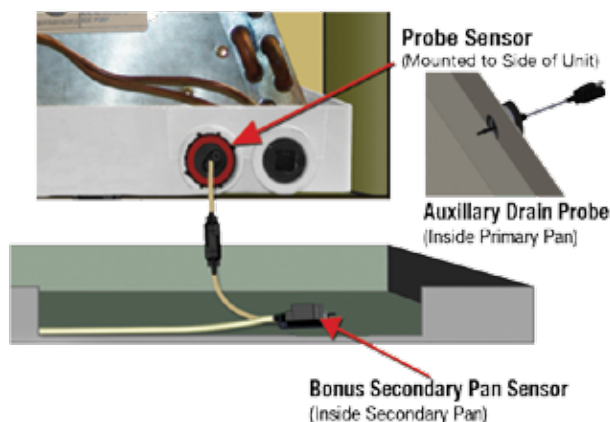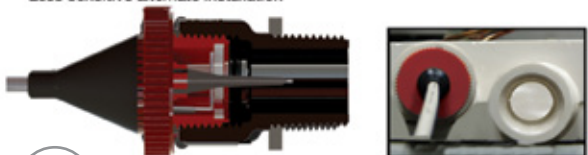
Plenum Rated
MICRO PAN SENSOR
PLUS BONUS
SECONDARY SENSOR

IDEAL FOR COMMERCIAL PACKAGE UNITS, METAL/PLASTIC SECONDARY DRAIN PANS & PRIMARY PAN WITH TIME DELAY

The AquaGuard AG-3180E micro-electronic condensate sensor is mounted directly in the primary drain pan. The bonus secondary sensor features water detection LED and easily installs in the metal or plastic secondary drain pan.

Both sensors continuously monitor any condensate overflow in the primary and secondary drain pans and automatically shut off the system and activate an alarm if any overflow is detected.

Key Features

- Micro Pan Sensor Plus Bonus Secondary Sensor with Water Detection LED
- Meets International Building Codes & Primary Pan Code Requirements
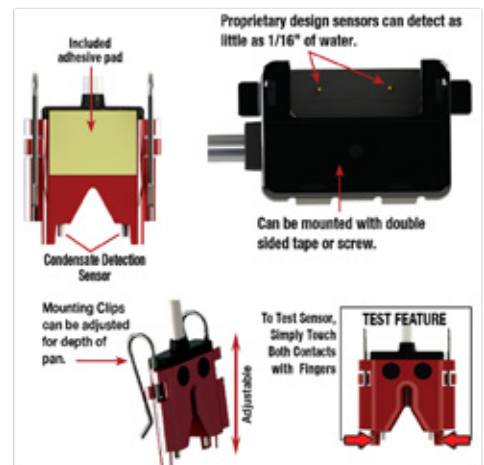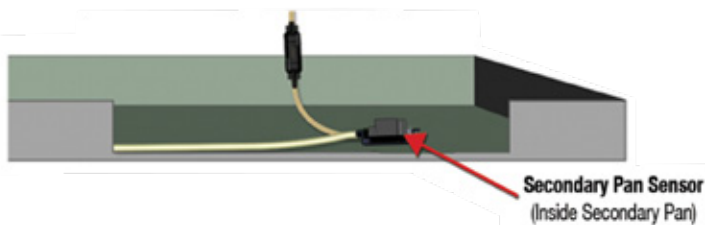- Now with Time Delay: Up to 60 Seconds On
- 6 Feet of Both Plenum Rated Probe and Sensor Wire
- 5 Amp, 24 VAC Solid State Sensor with Patent Pending Smart Sensor Technology

- Switch Can Be Normally Open or Normally Closed
- Normally Open 4th Wire for Optional External Alarm, Digital Controller or Energy Management Systems
- UL 508 Approved

Included adhesive pad

Proprietary design sensors can detect as little as 1/16" of water.

Condensate Detection Sensor

Can be mounted with double sided tape or screw.

Mounting Clips can be adjusted for depth of pan.

To Test Sensor, Simply Touch Both Contacts with Fingers

Adjustable

TEST FEATURE

Secondary Pan Sensor
(Inside Secondary Pan)

International Mechanical Code 307.2.3.1: "On downflow units and all other coils that do not have a secondary drain or provisions to install a secondary or auxiliary drain pan, a water-level monitoring device shall be installed inside the primary drain pan. This device shall shut off the equipment served in the event that the primary drain becomes restricted. Devices installed in the drain line shall not be permitted."

COMPLETE ALL-IN-ONE CONDENSATE MANAGEMENT SYSTEM

The AquaGuard AG-3575E is the all-in-one solution for a complete and professional HVAC installation. The AG-3575E can be used as an integrated primary drain line sensor, primary pan sensor, and a secondary drain pan sensor – 3 SENSORS FOR THE PRICE OF 1.

With multiple installation options, the AG-3575E is the perfect solution for commercial or self-contained package units as well as both primary pans and metal or plastic secondary drain pans.

This complete all-in-one condensate management system meets both International Building Codes and Primary Pan Code requirements making the AquaGuard AG-3575E a must in any professional HVAC contractor's truck or van.

Key Features

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- This complete all-in-one condensate management system meets both International Building Codes and Primary Pan Code requirements.

- A MUST in any professional HVAC contractor's truck or van.

AG-3176

Mounting Clips Can Be Adjusted for Depth of Pan

Adjustable

Water Detection LED Light

Proprietary design sensors can detect as little as 1/16" of water.

Can be mounted with double sided tape or screw.

AG-3175E
MORE Sensitive with Dam

DAM

With Adapter
LESS Sensitive Alternate Installation

CONDENSATE SENSORS

REMOVABLE CAP FOR MAINTENANCE AND CLEAN OUT

AG-2550E

PRIMARY DRAIN LINE

FLOW

TO BONUS SECONDARY DRAIN PAN

SENSOR AND CONTROL BOX

UNIQUE DESIGN PREVENTS RETROGRADE BACKFLOW WHEN ADDING CHEMICALS TO CLEAN THE DRAIN LINES
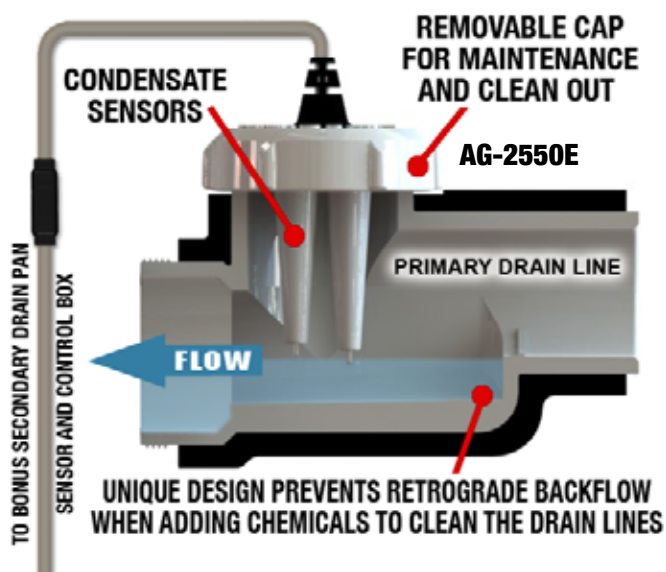
PRIMARY DRAIN LINE SENSOR — 1

PRIMARY PAN SENSOR OR AUXILIARY DRAIN SENSOR — 2

BONUS SECONDARY DRAIN PAN SENSOR — 3

FOR MINI-SPLIT OR DUCT-FREE SYSTEMS

The AG-9300 Series are electronic condensate drain sensors for mini-split or duct-free systems.

The AG-9300 Series features the AG-9300-U, which is the first universal condensate water sensor developed to be compatible with all major manufacturers' mini-split or duct-free systems currently on the market in addition to specifically developed electronic condensate drain sensors with exclusive wire harness connectors for Mitsubishi, LG, and Comfort Star units.

Each system continuously monitors any condensate overflow in the primary drain pan and automatically shuts off the mini-split or duct-free system and activates an alarm if any overflow is detected.

The AG-9300 Series includes:

AG-9300-U: Universal Drain Sensor for Mini-Split or Duct-Free Systems
**AG-9300-MIT:** Drain Sensor for Mitsubishi Mini-Split Systems
AG-9300-LG: Drain Sensor for LG Duct-Free Systems
AG-9300-CS: Drain Sensor for Comfort Star Mini-Split Systems

AG-9300 SERIES FEATURES:

- **Universal Model is Compatible with All Major Manufacturers' Mini-Split or Duct-Free Systems Currently on the Market**
- **Additional Models Available with Exclusive Wire Harness Connectors for Mitsubishi, LG, and Comfort Star Units**
- **Meets International Building Codes / UL 508 Approved**
- **Long Life Lithium Battery Included (Lasts Up To the Life of the Mini-Split or Duct-Free Unit)**
- **Up to 20 Second Make/Break Delay with Automatic Reset**
- **Quick and Easy Installation**
- **Low Battery Audible Alert**
- **UL 508 Approved**

Mounting Clips
Adhesive Pad
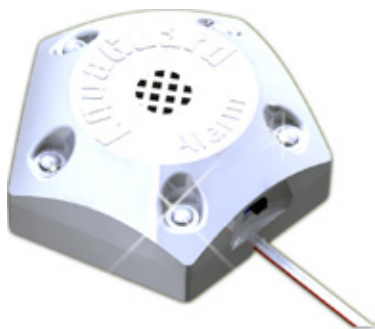
NEW AG-9100

Multipurpose Audible and Visual External Remote Alarm

The AG-9100 is a general purpose remote alarm that can be integrated into most monitoring systems (home alarm, water detection, etc.) It produces an audible and visual signal when activated. No battery necessary.
Multipurpose Audible and Visual External Remote Alarm

Key Features
- Low Amperage Draw of 100mA, no battery needed
- Adhesive pad is included for ease of mounting
- Visual and audible alarm notifications
- Approved for use with any AquaGuard 3-wire magnetic or 4-wire electronic water sensor and will not void any AquaGuard switch warranty.

AG 3157

6 Foot Extension Cable for AquaGuard Electronic Series Water Sensors

The AG-3157 is an extension cable that is installed between the AG-3000E control box and the probe in any AquaGuard Electronic Series condensate sensor. This cable will allow for an additional 6' of length between the control box and the probe.

AG-3177 (Plenum Rated)

6 Foot Plenum Rated Extension Cable for AquaGuard Electronic Series Water Sensors

The AG-3177 is a plenum rated extension cable that is installed between the AG-3000E control box and the probe in any AquaGuard Electronic Series condensate sensor. This cable will allow for an additional 6' of length between the control box and the probe.

6 Foot Plenum Rated Extension Cable for AquaGuard Electronic Series Water Sensors

AG-3176 (Plenum Rated)

Alternate Primary Pan Sensor for AG-3175E Electronic Water Sensor

The AG-3176 is an alternative probe for the AG-3175E. The AG-3176 probe clips to the primary pan and monitors moisture inside of the pan and can replace the secondary drain probe that is packaged with the AG-3175E. The AG-3176 is plenum rated as is the AG-3175E.

AG-2510 AquaMate®

The In-Line Access and Clean-Out Port for Secondary Drain Lines

The AquaMate in-line access port attaches to your primary or secondary drain line and allows easy access in the event of a clog. The AquaMate is pre-insulated and can be installed vertically or horizontally and is the nal touch for a truly professional installation.

Key Features
- The finishing touch for a truly professional installation
- Can be installed vertically or horizontally
- Insulated in-line maintenance and clean-out port

Limited Warranties and Limitation of Liability

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.

Resource Conservation Technologies, Inc. ("RCT") 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 RCT'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 RCT.
3, 5 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.
Resource Conservation Technologies, Inc. ("RCT") 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, five (5) years for Spartan pan models or 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, 5 or 10) year period from the date of purchase, it shall be repaired or replaced, at RCT's option, subject to the GENERAL TERMS and CONDITIONS set forth below. This warranty extends only to the original consumer purchaser and is non-transferable.

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 RCT.

GENERAL TERMS AND CONDITIONS

To be eligible for the warranty the purchaser must provide RCT 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 RCT 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 RCT as soon as possible after the discovery of any alleged defect. RCT 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. This warranty sets forth RCT's sole obligation and purchaser's exclusive remedy for defective products. For your benefit and protection register your product online at www.rctus.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 RCT. In the event that RCT attempts to contact consumers regarding a recall or other matter, and any damages occur, which could have been avoided by registration by the consumer, RCT shall have no liability. IN ALL CIRCUMSTANCES, RCT'S MAXIMUM LIABILITY SHALL NOT EXCEED THE ACTUAL PURCHASE PRICE PAID FOR THE PRODUCT ALONE. Warranty claims must be registered with RCT within thirty (30) days of damage or malfunction. RCT 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 RCT. RCT 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 Manatee County, FL and no other jurisdiction, and such action shall be governed by and construed in accordance with the laws of the State of Florida. Any notice herein shall be sent by certified or registered mail to 6408 Parkland Drive, Suite 102, Sarasota, FL 34243.