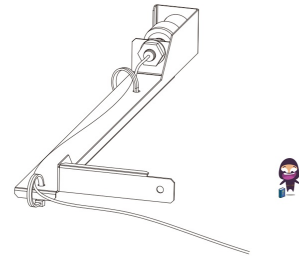



**Bluefin**

Bluefin Sensor  
BAYCOSW311B Drain  
Pan Overflow Switch



# Bluefin Sensor BAYCOSW311B Drain Pan Overflow Switch Installation Guide

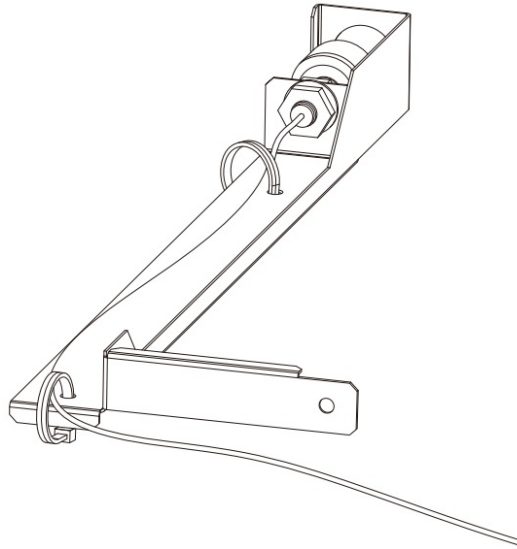
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# Bluefin

**Bluefin Sensor BAYCOSW311B Drain Pan Overflow Switch**



## Product Information

### Specifications

- Product Name: Foundation™ Packaged Rooftop Units
- Capacity: 7.5 to 12.5 Tons
- Model Number: BAYCOSW311B
- Refrigerant: R-454B (A2L Flammable)

### Product Usage Instructions

#### Safety Precautions

Only qualified personnel should install and service the equipment. Improper installation or servicing by unqualified individuals can result in serious injury or death. Always follow safety advisories and wear proper Personal Protective Equipment (PPE).

#### Installation

1. Read the manual thoroughly before starting the installation process.
2. Ensure proper field wiring and grounding as per NEC and local electrical codes.
3. Use ONLY R454B rated service equipment and components for handling the flammable refrigerant.

#### Maintenance

1. Regularly inspect the unit for any signs of damage or wear.
2. Follow the manufacturer's guidelines for scheduled maintenance tasks.
3. Contact a qualified technician for any repairs or servicing needs.

### Frequently Asked Questions (FAQ)

- **Q: Who should install and service the equipment?**

A: Only qualified personnel should handle the installation and servicing of the equipment to ensure safety and proper functioning.

- **Q: What refrigerant does the unit use?**

A: The unit uses R-454B refrigerant, which is flammable (A2L). It is important to use ONLY R454B rated service equipment and components for handling this refrigerant.

## **SAFETY WARNING**

Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.

## **Introduction**

Read this manual thoroughly before operating or servicing this unit.

### **Warnings, Cautions, and Notices**

Safety advisories appear throughout this manual as required. Your personal safety and the proper operation of this machine depend upon the strict observance of these precautions.

The three types of advisories are defined as follows:

#### **WARNING**

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

#### **CAUTION**

Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It could also be used to alert against unsafe practices.

#### **NOTICE**

Indicates a situation that could result in equipment or property-damage only accidents.

### **Important Environmental Concerns**

Scientific research has shown that certain man-made chemicals can affect the earth's naturally occurring stratospheric ozone layer when released to the atmosphere. In particular, several of the identified chemicals that may affect the ozone layer are refrigerants that contain Chlorine, Fluorine and Carbon (CFCs) and those containing Hydrogen, Chlorine, Fluorine and Carbon (HCFCs). Not all refrigerants containing these compounds have the same potential impact to the environment. Trane advocates the responsible handling of all refrigerants.

### **Important Responsible Refrigerant Practices**

Trane believes that responsible refrigerant practices are important to the environment, our customers, and the air conditioning industry. All technicians who handle refrigerants must be certified according to local rules. For the USA, the Federal Clean Air Act (Section 608) sets forth the requirements for handling, reclaiming, recovering and recycling of certain refrigerants and the equipment that is used in these service procedures. In addition, some states or municipalities may have additional requirements that must also be adhered to for responsible management of refrigerants. Know the applicable laws and follow them.

#### **WARNING**

Proper Field Wiring and Grounding  
Required!

Failure to follow code could result in death or serious injury.

All field wiring **MUST** be performed by qualified personnel. Improperly installed and grounded field wiring poses **FIRE** and **ELECTROCUTION** hazards. To avoid these hazards, you **MUST** follow requirements for field wiring installation and grounding as described in NEC and your local/state/national electrical codes.

## **WARNING**

Personal Protective Equipment (PPE) Required!

Failure to wear proper PPE for the job being undertaken could result in death or serious injury. Technicians, in order to protect themselves from potential electrical, mechanical, and chemical hazards, **MUST** follow precautions in this manual and on the tags, stickers, and labels, as well as the instructions below:

- Before installing/servicing this unit, technicians **MUST** put on all PPE required for the work being undertaken (Examples; cut resistant gloves/sleeves, butyl gloves, safety glasses, hard hat/bump cap, fall protection, electrical PPE and arc flash clothing). **ALWAYS** refer to appropriate Safety Data Sheets (SDS) and OSHA guidelines for proper PPE.
- When working with or around hazardous chemicals, **ALWAYS** refer to the appropriate SDS and OSHA/GHS (Global Harmonized System of Classification and Labelling of Chemicals) guidelines for information on allowable personal exposure levels, proper respiratory protection and handling instructions.
- If there is a risk of energized electrical contact, arc, or flash, technicians **MUST** put on all PPE in accordance with OSHA, NFPA 70E, or other country-specific requirements for arc flash protection, **PRIOR** to servicing the unit. **NEVER PERFORM ANY SWITCHING, DISCONNECTING, OR VOLTAGE TESTING WITHOUT PROPER ELECTRICAL PPE AND ARC FLASH CLOTHING. ENSURE ELECTRICAL METERS AND EQUIPMENT ARE PROPERLY RATED FOR INTENDED VOLTAGE.**

## **WARNING**

Follow EHS Policies!

Failure to follow instructions below could result in death or serious injury.

- All Trane personnel must follow the company's Environmental, Health and Safety (EHS) policies when performing work such as hot work, electrical, fall protection, lockout/tagout, refrigerant handling, etc. Where local regulations are more stringent than these policies, those regulations supersede these policies.
- Non-Trane personnel should always follow local regulations.

## **WARNING**

R-454B Flammable A2L Refrigerant!

Failure to use proper equipment or components as described below could result in equipment failure, and possibly fire, which could result in death, serious injury, or equipment damage.

The equipment described in this manual uses R-454B refrigerant which is flammable (A2L). Use **ONLY** R-454B rated service equipment and components. For specific handling concerns with R-454B, contact your local representative.

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## **Pre-Installation**

## Inspection

1. Unpack all components of the kit.
2. Check carefully for shipping damage. If any damage is found, report it immediately, and file a claim against the transportation company.

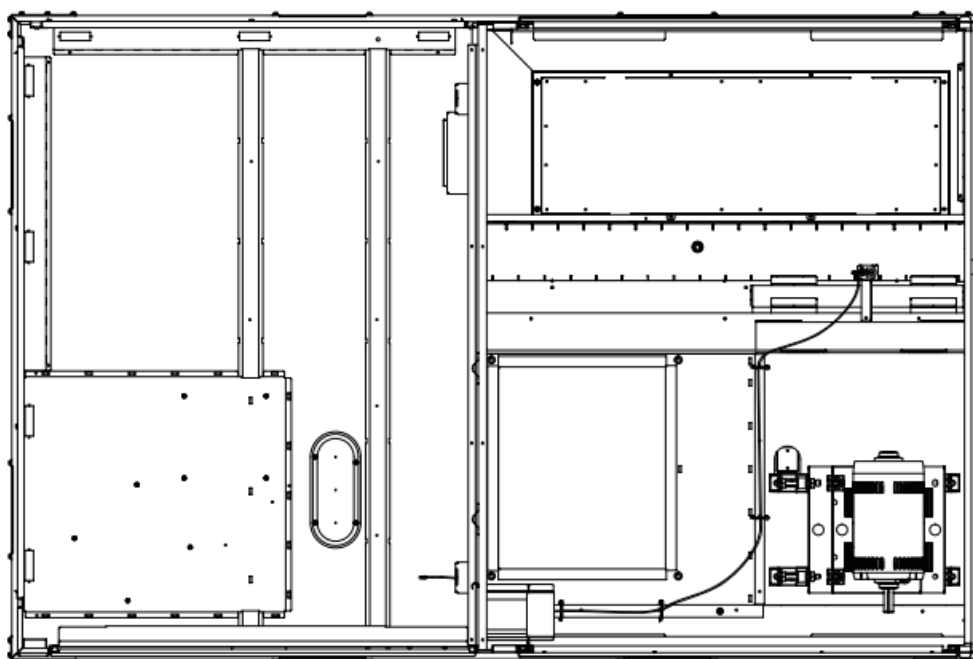
## Parts List

**Table 1. Parts list**

Qty	Description
1	Drain pan overflow switch
1	Fixed sheet metal
1	Screws and cable ties

## Main Components

**Figure 1. Wire routing location**



## Installation

### WARNING

Hazardous Voltage w/Capacitors!

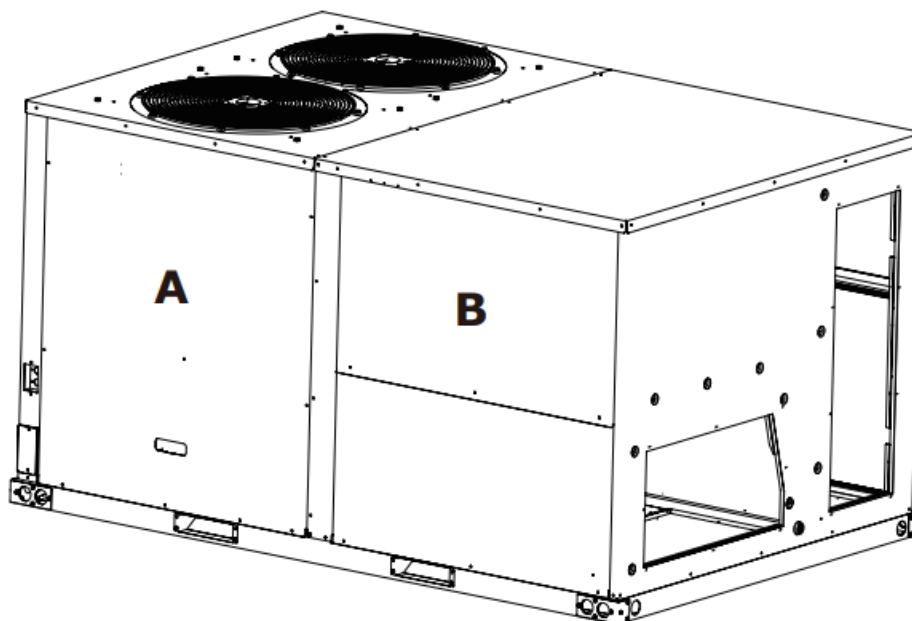
Failure to disconnect power and discharge capacitors before servicing could result in death or serious injury. Disconnect all electric power, including remote disconnects and discharge all motor start/run capacitors before servicing. Follow proper lockout/tagout procedures to ensure the power cannot be inadvertently energized. Verify with a CAT III or IV voltmeter rated per NFPA 70E that all capacitors have discharged.

**Important:** Turn off power to unit. Follow proper lockout/ tagout procedures to ensure power cannot inadvertently be energized.

The figure shown in this manual is for reference only and may be slightly different from the actual product.

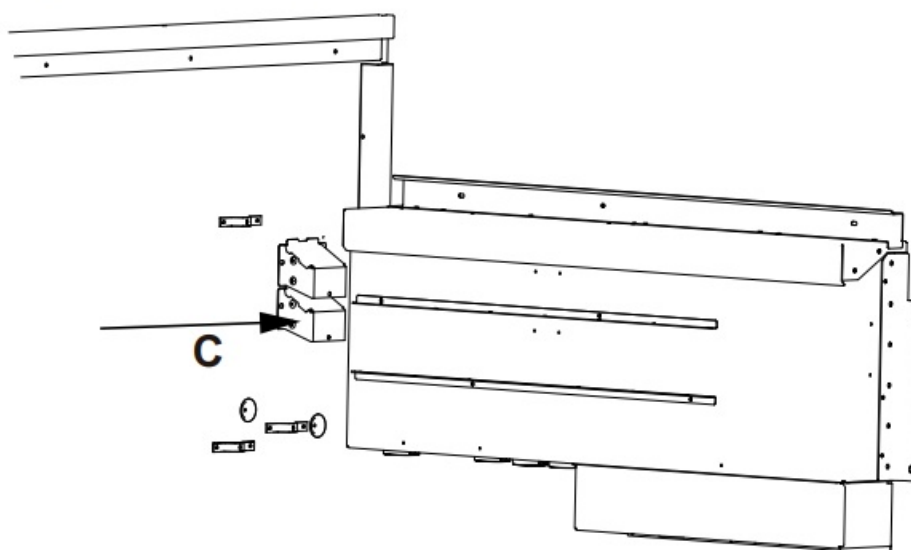
1. Open and lock unit disconnect.
2. Remove access panels A and B. See Figure 2, p. 5. Figure 2. Panels A and B

**Figure 2. Panels A and B**



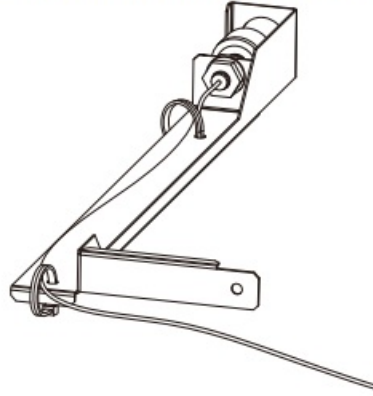
3. Remove waterproof box C . See Figure 3, p. 5. Cut off the cable tie on the rubber ring.

**Figure 3. Waterproof box C**



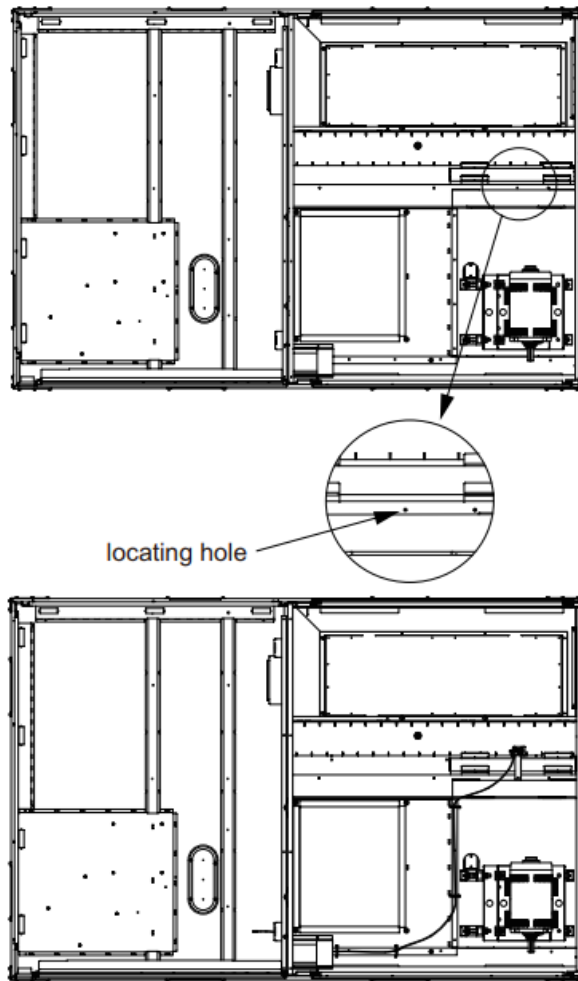
4. Install the drain pan overflow switch on the fixed sheet metal. See Figure 4, p. 5.

**Figure 4. Install the drain pan overflow switch**



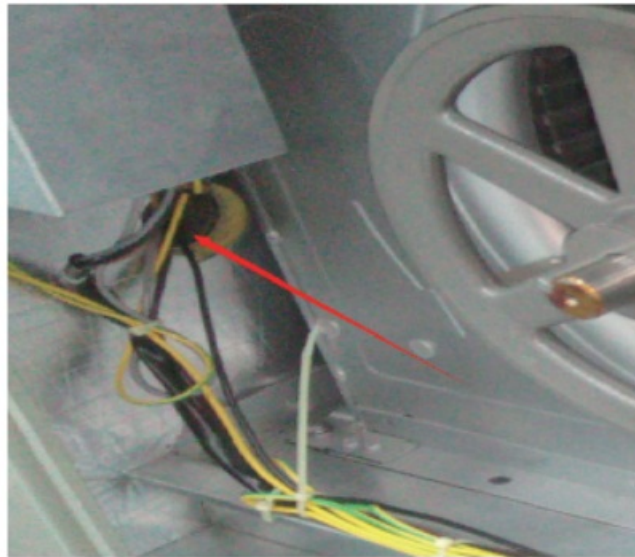
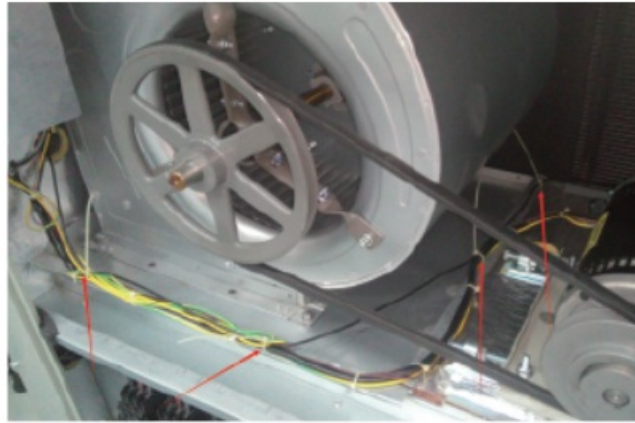
5. Install the drain pan overflow switch assembly. See Figure 5, p. 5.

**Figure 5. Drain pan overflow switch location**



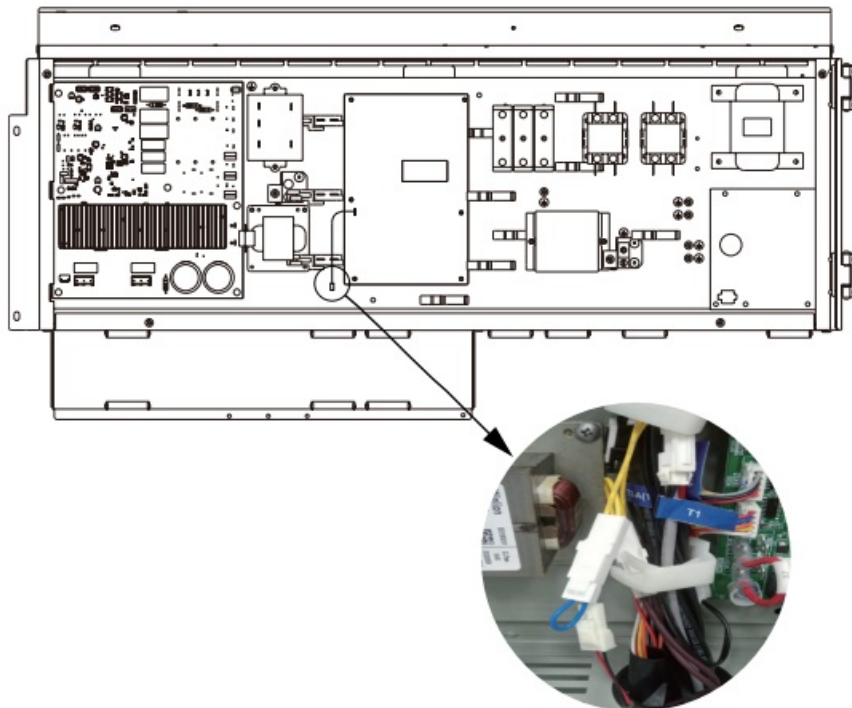
6. Route drain pan overflow switch wiring along the indoor fan deck. See Figure 6, p. 6.

**Figure 6. Crossing and binding wires**



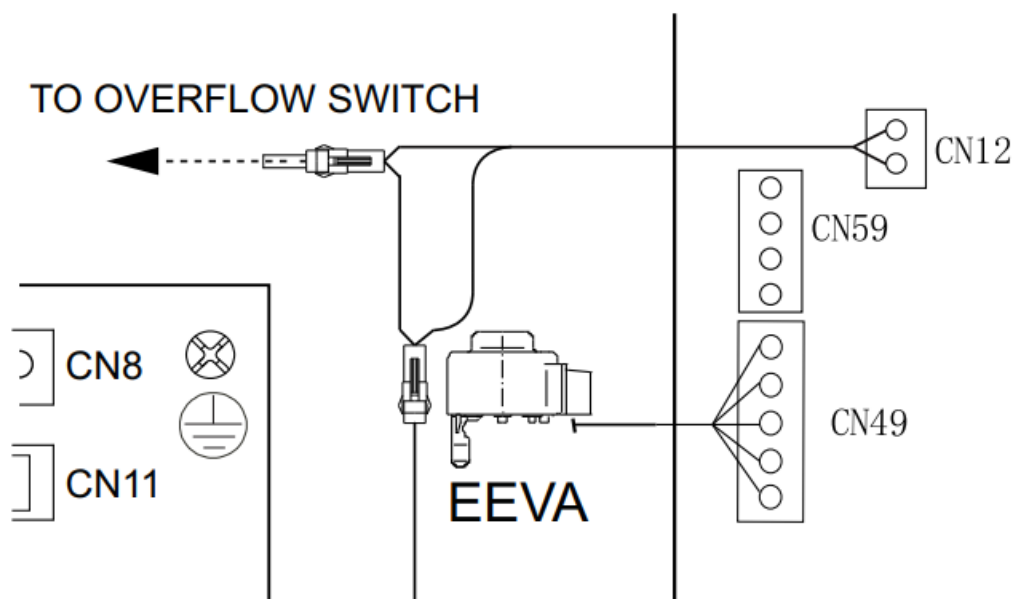
7. Disconnect the short circuit plug and connect the switch signal wire. See Figure 7, p. 6

**Figure 7. Drain pan overflow switch assembly**





**Figure 8. Electrical diagram**



8. Re-tighten the cable tie on the rubber ring, re-install the waterproof box C, and then fix the wire with the cable tie

**Important:** After attaching the wires and bundling with cable ties, trim the ends of the cable ties.

**Figure 9. Cross, fixed, locking and binding wire**



9. Install access panels A and B.

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**Documents / Resources**

Installation Instructions  
Drain Pan Overflow Switch  
Foundation™ Packaged Rooftop Units  
7.5 to 12.5 tons





Model Number: BAYCOSW311B



Order Code: ACC-KUNHA-BN

[Bluefin Sensor BAYCOSW311B Drain Pan Overflow Switch](#) [pdf] Installation Guide  
BAYCOSW311B Drain Pan Overflow Switch, BAYCOSW311B, Drain Pan Overflow Switch,  
Overflow Switch, Switch

## References

-  [American Standard® | Air Conditioning and Heating | HVAC Systems](#)
-  [Trane Heating & Air Conditioning](#)
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