

# ACMAXTECH

DP 0120 Series

CONDENSATE MANAGEMENT SYSTEM

## INSTALLATION INSTRUCTIONS

These instructions must be read and understood completely before attempting installation

### Safety Labeling and Signal Words

#### DANGER, WARNING, CAUTION, and NOTE

The signal words **DANGER**, **WARNING**, **CAUTION**, and **NOTE** are used to identify levels of hazard seriousness. The signal word **DANGER** is only used on product labels to signify an immediate hazard. The signal words **WARNING**, **CAUTION**, and **NOTE** will be used on product labels and throughout this manual and other manual that may apply to the product.

**DANGER** – Immediate hazards which will result in severe personal injury or death.

**WARNING** – Hazards or unsafe practices which could result in severe personal injury or death.

**CAUTION** – Hazards or unsafe practices which may result in minor personal injury or product or property damage.

**NOTE** – Used to highlight suggestions which will result in enhanced installation, reliability, or operation.

#### Signal Words in Manuals

The signal word **WARNING** is used throughout this manual in the following manner:

 **WARNING**

The signal word **CAUTION** is used throughout this manual in the following manner:

 **CAUTION**


#### Signal Words on Product Labeling

Signal words are used in combination with colors and/or pictures or product labels.

## SAFETY CONSIDERATIONS

Improper installation, adjustment, alteration, service, maintenance, or use can cause explosion, fire, electrical shock or other conditions which may cause personal injury or property damage. Consult a qualified installer, service agency, or your distributor or branch for information or assistance. The qualified installer or agency must use factory-authorized kits or accessories when modifying this product. Refer to the individual instructions packaged with the kits or accessories when installing.

Follow all safety codes. Wear safety glasses and work gloves. Use quenching cloths for brazing operations and have a fire extinguisher available. Read these instructions thoroughly and follow all warnings or cautions attached to the unit. Consult local building codes and appropriate national electrical codes (in USA, ANSI/NFPA70, National Electrical Code (NEC); in Canada, CSA C22.1) for special requirements.

Recognize safety information. This is the safety-alert symbol.  When you see this symbol in instructions or manuals, be alert to the potential for personal injury.

Understand the signal words **DANGER**, **WARNING**, **CAUTION**, and **NOTE**. These words are used with the safety-alert symbol. **DANGER** identifies the most serious hazards which **will** result in serious injury or death. **WARNING** signifies a hazard which **could** result in serious injury or death. **CAUTION** is used to identify unsafe practices which **may** result in minor personal injury or product and property damage. **NOTE** is used to highlight suggestions which **will** result in enhanced installation, reliability, or operation.

These instructions cover minimum requirements and conform to existing national standards and safety codes. In some instances, these instructions exceed certain local codes and ordinances, especially those that may not have kept up with changing residential construction practices. We require these instructions as a minimum for a safe installation.

### **WARNING**

#### **ELECTRICAL SHOCK HAZARD**

Failure to follow this warning could cause personal injury or death.

Before performing service or maintenance operations on unit, always turn off main power switch to unit and install lockout tag. Unit may have more than one power switch.

### **WARNING**

#### **UNIT OPERATION AND SAFETY HAZARD**

Failure to follow this warning could cause personal injury, death and/or equipment damage.

R-410A refrigerant systems operate at higher pressures than standard R-22 systems. Do not use R-22 service equipment or components on R-410A refrigerant equipment.

### **WARNING**

#### **PERSONAL INJURY AND ENVIRONMENTAL HAZARD**

Failure to follow this warning could cause personal injury or death

Relieve pressure and recover all refrigerant before system repair or final unit disposal.

Wear safety glasses and gloves when handling refrigerants. Keep torches and other ignition sources away from refrigerants and oils.

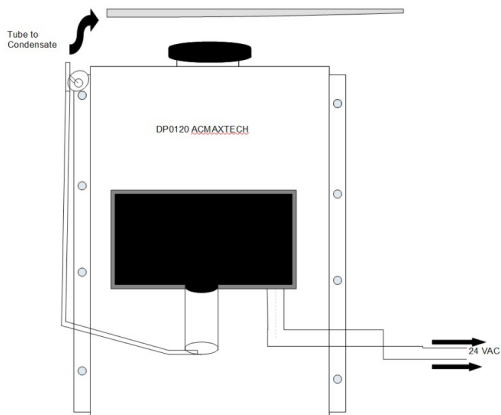
### **CAUTION**

#### **CUT HAZARD**

Failure to follow this caution may result in personal injury.

Sheet metal parts may have sharp edges or burrs. Use care and wear appropriate protective clothing, safety glasses and gloves when handling parts and servicing air conditioning units.

COMPONENTS  
In Install kit



ACMAXTECH DN1020 1 Unit



PVC Tubing 3/8"ID X 1/2"OD Flexible Clear Vinyl Hose 10' Feet 10 ft



18/2 SPT-2 Bulk Lamp Cord, 300-Volt 18-Gauge 10 ft



Non-Insulated Disconnect, Double  
Male Single Female, .250" Tab



Gardner Bender 16-14 AWG Fully  
Insulated Disconnect, Male/Female Pairs

2 pairs



Ideal 72B Blue WIRE-NUT Wire



8 in. Zip Ties

2 wall anchors

2 Screws

2 Fender washers



1 Gal ACMAXTECH  
Condensate Cleaner

Warning- Always turn off power to air handler prior to installation

Only use approved ACMAXTECH CONDENSATE CLEANING SOLUTION. Other liquids may damage your system. (Do not use bleach, Vinegar or acids that can destroy you condensate system.

A one gallon refill should provide up to 40 weeks of cleaning. Systems will vary based on power spike and outages. We recommend refilling the unit every 6 months during regular semi annual maintenance.

Never install the ACMAXTECH directly to the air handlers panels or covers.

Make sure the provides tube delivers cleaning solution to the farthest point in the condensate pan, in order to maximize the efficiency in on going cleaning.

Make sure the ACMAXTECH unit is installed after condensate system has been fully cleaned. ACMAXTECH will loosen debris that can clog if system is dirty.

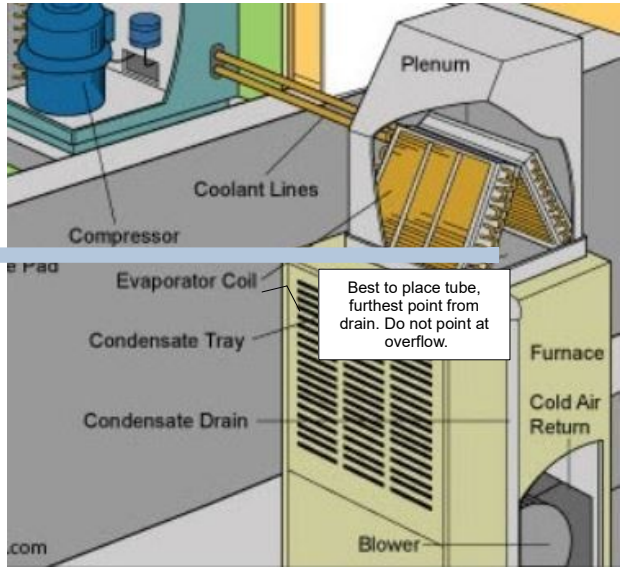
DO not install ACMAXTECH more than 8feet below highest hose point.

Inspect drain line to assure unit is properly installed and functioning

All unit are quality checked at the factory. The anti siphon valve located on the upper left hand side of the unit can dry out and leak during initial testing. Blowing in to the valve can assure its ready to go. Typically this is temporary and will self correct.

ACMAXTECH provides a 2 year warranty from the date of purchase.

Technical support or question can be addressed either on are website [WWW.ACMAXTECH.COM](http://WWW.ACMAXTECH.COM) or by calling (239) 676 0786

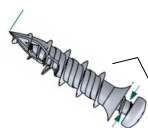


Best to place tube, furthest point from drain. Do not point at overflow.

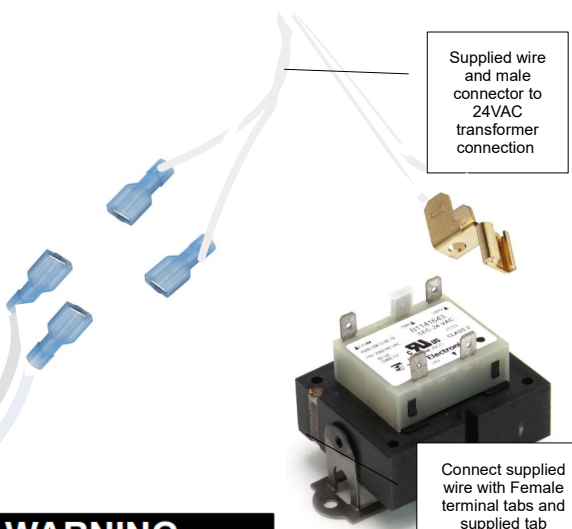


Supplied 5/8OD tubing to be run into condensate pan

Anti-Siphon Valve



Fasten to wall or board. Do not fasten to Air Handler



Supplied wire and male connector to 24VAC transformer connection

Connect supplied wire with Female terminal tabs and supplied tab adapter to 24VAC ONLY

**⚠ WARNING**  
**ELECTRICAL SHOCK HAZARD**  
 Failure to follow this warning could cause personal injury or death.  
 Before performing service or maintenance operations on unit, always turn off main power switch to unit and install lockout tag. Unit may have more than one power switch.

**⚠ WARNING**  
**PERSONAL INJURY, AND/OR PROPERTY DAMAGE HAZARD**  
 Failure to carefully read and follow this warning could result in equipment malfunction, property damage, personal injury and/or death.  
 Installation or repairs made by unqualified persons could result in equipment malfunction, property damage, personal injury and/or death.  
 The information contained in this manual is intended for use by a qualified service technician familiar with safety procedures and equipped with proper tools and test instruments.  
 Installation must conform with local building codes and with the national Electrical Code NFPA70 current edition or Canadian Electrical Code part 1 CSA C.22.1.

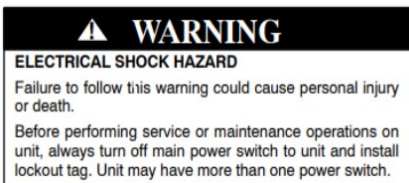
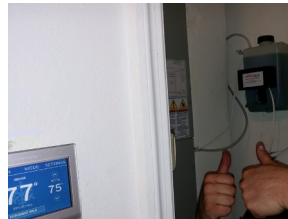
## **Installation**

### Job-site Survey

1. Determine unit location (from project plans) or select unit location.
2. Check for possible obstructions which may interfere with unit mounting or refilling

### Step 1 — Plan for Unit Location

Select a location for the unit that provides for the minimum clearances required for Fasteners to be securely mounted to surface sufficient to hold 12LBS of weight when unit is filled.. This includes the clearance to combustible surfaces, unit performance and service access below, around and above unit as specified in unit drawings. See Picture.



### Step 2 — Plan for Sequence of Unit Installation

Pick a location that is easily accessed for fluid fills and checks. The unit should be within a distance to the air handler that allows access to the condensate pan and 24VAC electric

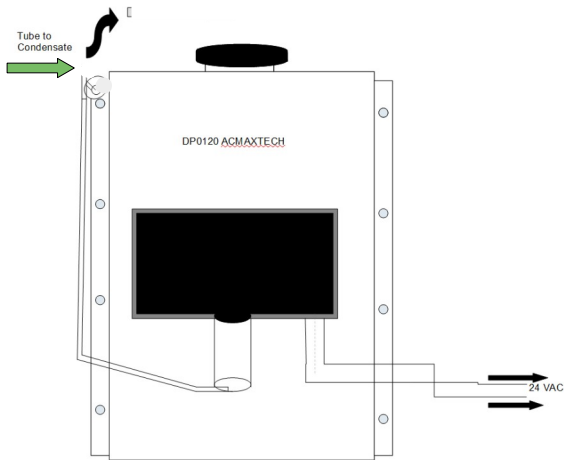
Unit can be installed dry. The last step is filling with the condensate solution.

### STEP 3. Check install kit contents

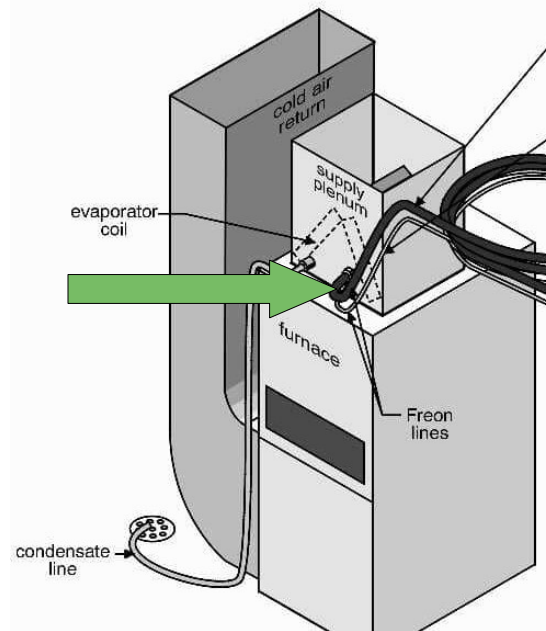
Verify sufficient lengths of wire and 3/8 in OD tubing. The install kit contains all necessary items to complete a basic install. Additional quick disconnect terminal connector may necessary AND SHOULD BE SUPPLIED BY TECHNICIAN.



## PVC TUBING Install



## Refrigerant lines



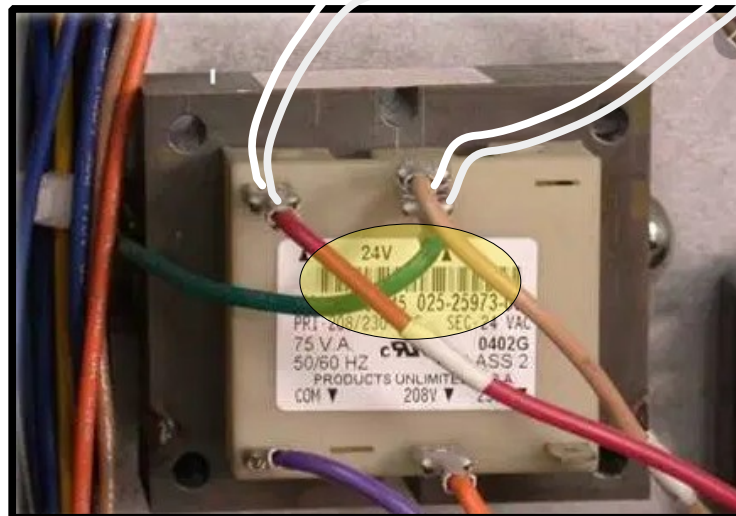
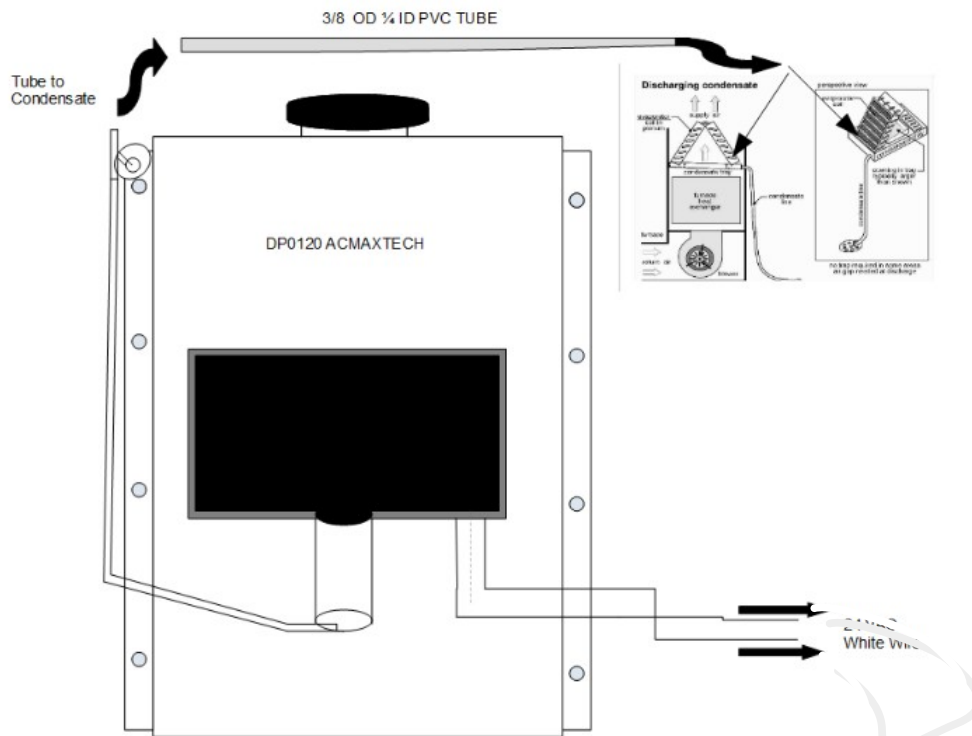
1. Mount DP Tank to secure location. Using mounting side holes.
2. Attach supplied 3/8 OD 1/4 in ID PVC tubing to the vertical hose barb facing up on tank, net to the cap.
3. Place the connected hose into condensate pan follow the Freon lines by removing some duct sealant. Replace when done.
4. Secure tube neatly with ties .

<b>⚠ CAUTION</b>
<b>CUT HAZARD</b>
Failure to follow this caution may result in personal injury.
Sheet metal parts may have sharp edges or burrs. Use care and wear appropriate protective clothing, safety glasses and gloves when handling parts and servicing air conditioning units.

### Installation note:

Use 1/2 inch copper pipe scraps or bend to hold hose in condensate pan.

## 24VAC Electrical Install



### Installation Note:

Only connect to secondary 24VAC tabs. Do not connect to common or high Voltage side of transformer. If unsure use a volt meter and verify 24VAC is available.



Testing and Verifying:

1. Power on HVAC unit. On power on the DP0120 will cycle on for 2 seconds.
3. ONLY fill tank with ACMAXTECH Condensate cleaning solution supplied in install kit. Additional solution can be acquired from your distributor or by visiting the [www.ACMAXTECH.com](http://www.ACMAXTECH.com)
4. Verify unit has pumped solution into the pan and has not put extra fluid into float switch.

Installation Notes:

This unit is designed to keep condensate systems clear and is assumed that the drain line is clear.

In some cases the unit has loosened additional alga or bacteria in pipes that appeared top be clean at start. Remove blockage and system will function as intended.

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**INSTALLATION QUESTIONS  
PLEASE CONTACT**

**239 676 0786**

**[WWW.ACMAXTECH.COM](http://WWW.ACMAXTECH.COM)**