HORIZONTAL TWO-WAY COIL INSTALLATION INSTRUCTIONS

Important Safety Instructions

The following symbols and labels are used throughout this manual to indicate immediate or potential safety hazards. It is the owner's and installer's responsibility to read and comply with all safety information and instructions accompanying these symbols. Failure to heed safety information increases the risk of personal injury, property damage, and/ or product damage.

HIGH VOLTAGE Disconnect all power before servicing or installing this unit. Multiple power sources May be present. Failure to do so may cause property damage, personal injury or death.



ONLY PERSONNEL THAT HAVE BEEN TRAINED TO INSTALL, ADJUST, SERVICE OR REPAIR(HEREINAFTER, "SERVICE") THE EQUIPMENT SPECIFIED IN THIS MANUAL SHOULD SERVICE THE EQUIPMENT. THE MANUFACTURER WILL NOT BE RESPONSIBLE FOR ANY INJURY OR PROPERTY DAMAGE ARISING FROM IMPROPER SERVICE OR SERVICE PROCEDURES. IF YOU SERVICE THIS UNIT, YOU ASSUME RESPONSIBILITY FOR ANY INJURY OR PROPERTY DAMAGE WHICH MAY RESULT. IN ADDITION, IN JURISDICTIONS THAT REQUIRE ONE OR MORE LICENSES TO SERVICE THE EQUIPMENT SPECIFIED IN THIS MANUAL, ONLY LICENSED PERSONNEL SHOULD SERVICE THE EQUIPMENT. IMPROPER INSTALLATION, ADJUSTMENT, SERVICING OR REPAIR OF THE EQUIPMENT SPECIFIED IN THIS MANUAL, OR ATTEMPTING TO INSTALL, ADJUST, SERVICE OR REPAIR THE EQUIPMENT SPECIFIED IN THIS MANUAL WITHOUT PROPER TRAINING MAY RESULT IN PRODUCT DAMAGE, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

Shipping Inspection

Upon receiving the product, inspect it for damage from shipment. Shipping damage, and subsequent investigation is the responsibility of the carrier. Verify the model number, specifications, and accessories are correct prior to installation. The distributor or manufacturer will not accept claims from dealers for transportation damage or installation of incorrectly shipped units.

Handling

Use caution when transporting / carrying unit. Do not carry unit with hooks or sharp object. The preferred method of carrying the unit after arrival at the job site is to carry by two-wheel hand truck from the back or sides or by hand by carrying at the cabinet corners.

Codes & Regulations

This product is designed and manufactured to comply with national codes. Installation in accordance with such codes and/or prevailing local codes/regulations is the responsibility of the installer. The manufacturer assumes no responsibility for equipment installed in violation of any codes or regulations.

The United States Environmental Protection Agency (EPA) has issued various regulations regarding the introduction and disposal of refrigerants. Failure to follow these regulations may harm the environment and can lead to the imposition of substantial fines. Should you have any questions please contact the local office of the EPA.

Replacement Parts

Inspect the unit to verify all required components are present and intact. Report any missing components immediately to the manufacturer or to the distributor. Make sure to include the full product model number and serial number when reporting and/or obtaining service parts. Replacement parts for this product are available through your contractor or local distributor. For the location of your nearest distributor consult the white business pages, the yellow page section of the local telephone book or contact:

HOMEOWNER SUPPORT GOODMAN MANUFACTURING COMPANY, L.P. 19001 KERMIER ROAD WALLER, TEXAS 77484 877–254 – 4729

Pre-Installation Instructions

Carefully read all instructions for the installation prior to installing product. Make sure each step or procedure is understood and any special considerations are taken into account before starting installation. Assemble all tools, hardware and supplies needed to complete the installation. Some items may need to be purchased locally. Make sure everything needed to install the product is on hand before starting.



System Matches

The entire system (combination of indoor and outdoor sections) must be manufacturer approved and Air Conditioning, Heating, and Refrigeration Institute (AHRI) listed.

NOTE: INSTALLATION OF UNMATCHED SYSTEMS IS NOT PERMITTED. DAMAGE OR REPAIRS DUE TO INSTALLATION OF UNMATCHED SYSTEMS IS NOT COVERED UNDER THE WARRANTY.

Application Information

Install this coil upstream (discharge air) of the furnace and install downstream (return air) of the air handler. This coil is bi-directional coil and can be installed in either the left or right direction. Determine the coil direction by the side that allows the best access.

NOTE: THESE COILS ARE DESIGNED FOR INDOOR INSTALLATION ONLY.

If the unit is located in an unconditioned area with high ambient temperature and/or high humidity, the coil may be subject to nuisance sweating of the casing. On these installations, a wrap of 2" fiberglass insulations with a vapor barrier is recommended

Clearances

Refrigerant lines must be routed depending on configuration of unit to maintain the required 24" minimum clearance for service. Consult all appropriate regulatory codes prior to determining final clearances. In installations that may lead to physical damage (i.e. a garage) it is advised to install a protective barrier to prevent such damage. Always install units such that a positive slope in condensate line ($\frac{1}{4}$ " per foot) is allowed.

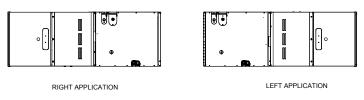


Figure 1 Front View (For Right & Left Hand Application)

Furnace to Coil Attachment

Refer to the Furnace IO manual for further instruction.

There is no conversion required to reverse from right to left application. Attach the duct flanges to the discharge side of the unit. If the coil and furnace combination are not similar in depth and width, use a field-supplied transition to center the furnace and coil openings (see figure 5).

 Using the hardware and brackets provided, attach the coil to the furnace then attach the plenum to the coil (Figure 5). Using tape or mastic seal between the coil and furnace and the coil and plenum.

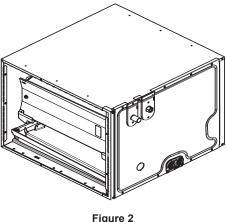


Figure 2 Actual Coil Figure

 Please use Z-Bracket provided with units to fill the transition gap between furnace & coil when coil is one size larger than furnace. Additional gaps must be filled with insulated tape or putty to prevent air leakage. Figure 3 indicates incorrect coil/furnace attachment method.

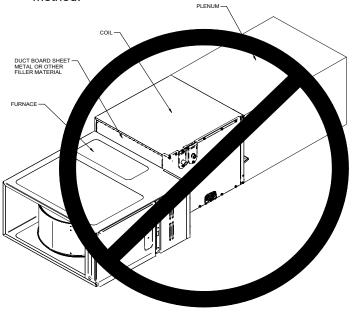
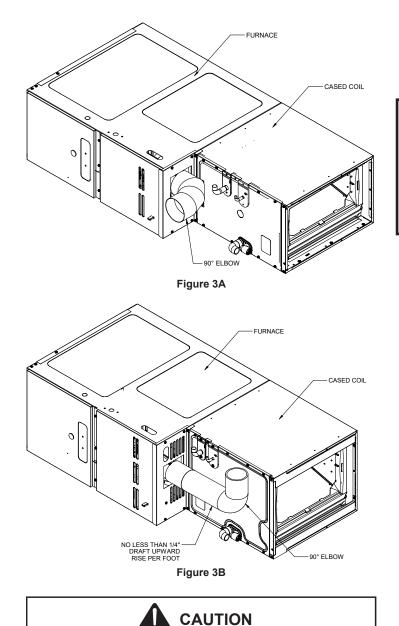


Figure 3 Incorrect Furnace, Coil and Plenum Installation

- Optionally a transition duct can be used to attach the coil with furnace, if z-bracket is not preferred to be used (see figure 4E and 4F).
- In case of CHPTA1822A coil match up with 80% Furnace in Horizontal Right application, 90° elbow flue vent must be used and oriented away from the cased coil (see Figure 3A).
- In case of other cabinet sizes match up with 80% Furnace in Horizontal Right application, 2 qty of 90° elbow flue vent must be used. The horizontal run must be ≤ 75% of the vertical rise and no less than ¼" upward rise per foot (see Figure 3B).



IF DRAIN PAN EXTENSION IS NOT LOCKED CORRECTLY, AIRFLOW PATH WILL BE BLOCKED AND FLOODING MAY OCCUR.

Drain Pan Extension

 A drain pan extension is shipped with coil in the accessory kit box (Figure 4A). This extension is to be used only for horizontal left application used only for higher than normal humid application. During horizontal right application, this Drain Pan Extension is not required (There are accessories recommended for horizontal right application, see page 4). This extension will have to be locked in position for proper application.

NOTE: TO INSTALL DRAIN PAN EXTENSION, BUILT IN DUCT FLANGES ON THE WRAPPER MUST BE BENDED IN-WARD OR OUTWARD AS NEEDED. REMOVE THE DRAIN PAN EXTENSION FROM ACCESSORY BOX AND FROM PLASTIC BAG. FOLLOW ILLUSTRATION #4B BELOW TO INSTALL DRAIN PAN EXTENSION. To lock extension, rotate downward away from drain pan until snaps into position. It will act as an extension for drain pan and must not be left lose or in the path of airflow.

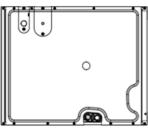
Drain pan extension (black plastic part in this kit) must be installed in all horizontal left application. Refer to the IO manual for complete installation instruction.

L'extension du bac de drain (pièce en plastique noir dans ce kit) doit être installée dans toutes les applications horizontales gauches. Se référer au manuel IO pour des instructions d'installation complètes.

La extensión de la bandeja de drenaje (parte de plástica negra en este kit) debe ser instalado en toda la aplicación horizontal izquierda. Consulte el manual de IO para obtener las instrucciones de instalación completas.



Figure 4A Drain pan extension is inside the accessory box



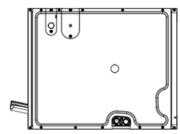


Figure 4B Installing drain pan extension

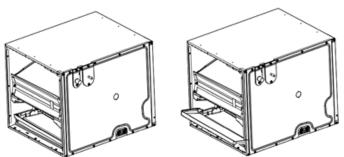
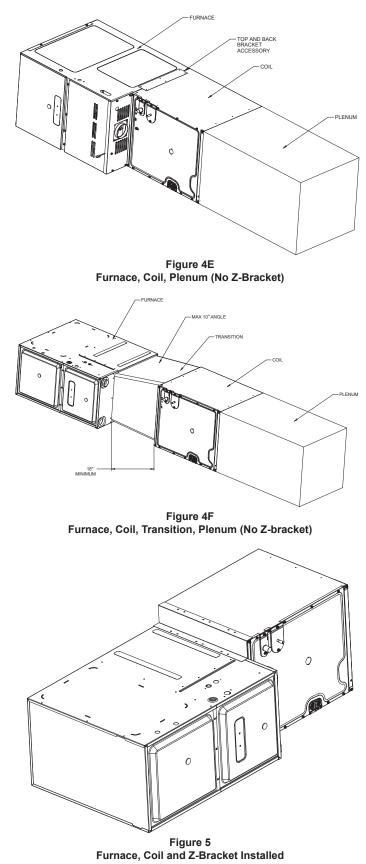


Figure 4C and 4D Before and After Extension has been installed

Duct Attachment

This coil's casing is perforated for duct attachment. However, Duct flanges (Qty: 2) are shipped in a box from factory separately for the sides that have rails and perforation can not be used. These flanges are to be used over rails. Remove center rail screw and lay over the flange on top of rails, then attach the screw back on to secure the flange over rails. For horizontal left application there is only one rail (bottom) hence only one duct flange is needed and other can be stored. For horizontal right application there are two rail (top & bottom) and both duct flanges should be used. Duct flanges can also be attached using all three screws for the rails if additional strength is needed.



Condensate Drain Piping

During cooling application, where damage from condensate overflow may occur, it is **MANDATORY** to install a Secondary drain pan under the entire coil cabinet with a separate drain line properly sloped and terminated in an area visible to the owner to be able to see water discharge. This secondary drain pan can provide extra protection to the area under the unit should the primary drain plug up and overflow. For coils with "A" Cabinets (14" wide), use float switch if secondary drain line is not installed. Refer to product nomenclature from product specification literature to identify coil models with "A" cabinets. As expressed in our product warranty, we will not be liable for any damages, structural or otherwise due to the failure to follow this installation requirement.

The coil drain pan has a primary and an optional secondary drain with ³/₄" NPT female connections. The connectors required can be ³/₄" NPT male either PVC or metal pipe and should be hand tightened to a torque of no more than 37 in-lbs. to prevent damage to the drain pan connection. An insertion depth between .355 to .485 inches (3-5 turns) should be expected at this torque. If using a copper drain line, solder a short piece of pipe to the connector before installing a drain fitting. DO NOT over torque the ³/₄" copper connector to the plastic drain connection. Insulate PVC drain lines/pipes with high heat resistive tape within 1" furnace flue/vent pipe. Foil-Mastic Sealant tape is the preferred wrapping material.

- 1. Ensure drain pan hole is NOT obstructed.
- 2. To prevent potential sweating and dripping on finished space, it may be necessary to insulate the condensate drain line located inside the building. Use Armaflex® or similar material.

A Secondary Condensate Drain Connection has been provided for areas where the building codes require it. Pitch the drain line ¼" per foot to provide free drainage. Insulate drain lines (primary and secondary) located inside the building to prevent sweating. Install a condensate trap in the primary drain line to ensure proper drainage. If the secondary line is required, run the line separately from the primary drain and end it where it can be easily seen.

NOTE: WATER COMING FROM THIS LINE MEANS THE COIL PRIMARY DRAIN IS PLUGGED AND NEEDS CLEARING.



NOTE: Trapped lines are required by many local codes. In the absence of any prevailing local codes, please refer to the requirements listed in the Uniform Mechanical Building Code. A drain trap in a draw-through application prevents air from being drawn back through the drain line during fan operation thus preventing condensate from draining, and if connected to a sewer line to prevent sewer gases from being drawn into the airstream during blower operation. In a blow-through application the drain trap prevents conditioned air from escaping.

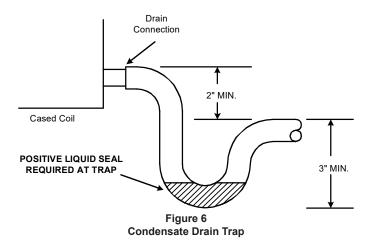
The installation must include a "P" style trap that is located as close as is practical to the evaporator coil. See Figure 6 for details of a typical condensate line "P" trap.

NOTE: UNITS OPERATING IN HIGH STATIC PRESSURE APPLICATIONS MAY REQUIRE A DEEPER FIELD CONSTRUCT-ED "P" STYLE TRAP THAN IS SHOWN IN FIGURE 6 TO ALLOW PROPER DRAINAGE AND PREVENT CONDENSATE OVERFLOW.

Use of a condensate removal pump is permitted when necessary. This condensate pump should have provisions for shutting off the control voltage should a blocked drain occur. A trap must be installed between the unit and the condensate pump.

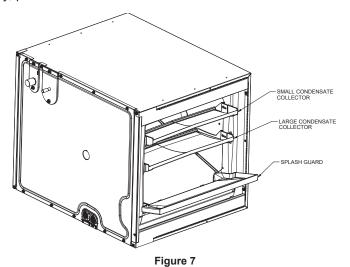
IMPORTANT NOTE: THE EVAPORATOR COIL IS FABRI-CATED WITH OILS THAT MAY DISSOLVE STYROFOAM AND CERTAIN TYPES OF PLASTICS. THEREFORE, A REMOVAL PUMP OR FLOAT SWITCH MUST NOT CONTAIN ANY OF THESE MATERIALS.

TIP: Priming the "P" trap may avoid improper draining at the initial installation and at the beginning of the cooling season.



Horizontal Right Coil Accessories

In application where the Horizontal coil is installed in the right position, and the return air environment see humidity level above 65% relative humidity coupled with total external static levels above 0.5" e.s.p, a condensate management accessory kit is available for field application. Sold separately, please refer to kit installation instruction IOG-7008.



Refrigerant Lines



A QUENCHING CLOTH IS STRONGLY RECOMMENDED TO PREVENT SCORCHING OR MARRING OF THE EQUIPMENT FINISH WHEN BRAZING CLOSE TO THE PAINTED SURFACES. USE BRAZING ALLOY OF 5% MINIMUM SILVER CONTENT.

All cut ends are to be round, burr free, and cleaned. Any other condition increases the chance of a refrigerant leak. Use a pipe cutter to remove the closed end of the spun closed suction line.

To avoid overheating after brazing, quench all welded joints with water or a wet rag.

For the correct tubing size, follow the specification for the condenser/heat pump



THE COIL IS SHIPPED UNDER PRESSURE WITH A R-410A GAS MIXTURE. USE APPROPRIATE SERVICE TOOLS AND FOLLOW THESE INSTRUCTIONS TO PREVENT INJURY.



APPLYING TOO MUCH HEAT TO ANY TUBE CAN MELT THE TUBE. TORCH HEAT REQUIRED TO BRAZE TUBES OF VARIOUS SIZES MUST BE PROPORTIONAL TO THE SIZE OF THE TUBE. SERVICE PERSONNEL MUST USE THE APPROPRIATE HEAT LEVEL FOR THE SIZE OF THE TUBE BEING BRAZED.

NOTE: TUBES OF SMALLER SIZE REQUIRE LESS HEAT TO BRING THE TUBE TO BRAZING TEMPERATURE BEFORE ADDING BRAZING ALLOY. THE USE OF A HEAT SHIELD WHEN BRAZING IS RECOMMENDED TO AVOID BURNING THE SERIAL PLATE OR THE FINISH ON THE UNIT.

Refrigerant tubing must be routed to allow adequate access for servicing and maintenance of the unit. Do not handle coil assembly with manifold or flowrator tubes. Doing so may result in damage to the tubing joints. Always use clean gloves for handling coil assemblies.

Tubing Size/Length

For the correct tubing size, follow the specification for the condenser/heat pump. Give special consideration to minimizing the length of refrigerant tubing when installing coils. Refer to Remote Cooling/Heat Pump Technical Publication TP-107* Long Line Set Application R-410A for guidelines for line lengths over 80'. Leave a minimum 3" straight in line set from braze joints before any bends.

Tubing Preparation

All cut ends are to be round, burr free, and cleaned. Any other condition increases the chance of a refrigerant leak. Use a pipe cutter to remove the closed end of the spun closed suction line.

NOTE: TO PREVENT POSSIBLE DAMAGE TO THE TUBING JOINTS, DO NOT HANDLE COIL ASSEMBLY WITH MANIFOLD OR FLOWRATOR TUBES. ALWAYS USE CLEAN GLOVES WHEN HANDLING COIL ASSEMBLIES.

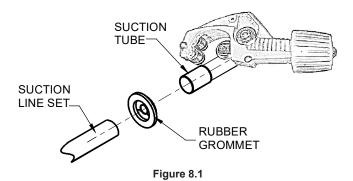
Brazing

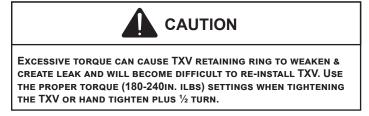
Braze joints should be made only with the connections provided external to the cabinet. Do not alter the cabinet nor braze inside the cabinet. To avoid overheating after brazing, quench all brazed joints with water or a wet rag.

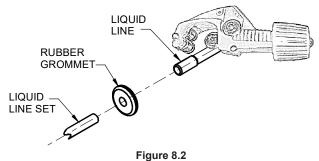
Tubing Connections for TXV Version TXV models come with factory installed adjustable TXV

with the bulb permanently located on the suction tube.

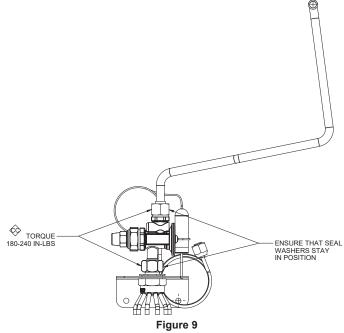
- 1. Remove coil access panel and rubber grommets.
- 2. Remove access valve fitting cap and depress the valve stem in access fitting to release pressure. No pressure indicates possible leak.
- 3. Reinstall the Coil Access Panel & rubber grommets.
- Remove the spin closure on both the liquid and suction tubes using a tubing cutter. DO NOT USE A CUTTING METHOD THAT WOULD RESULT IN THE GENERATION OF COPPER SHAVINGS OR COPPER DUST.







- 5. Insert liquid line set into liquid tube expansion and slide grommet about 18" away from braze joint.
- Insert suction line set into suction tube expansion and slide insulation and grommet about 18" away from braze joint.
- 7. Braze suction and liquid line joints.



9.5 Thermal Expansion Valve System Adjustment

Run the system at Cooling for 10 minutes until refrigerant pressures stabilize. Use the following guidelines and methods to check unit operation and ensure that the refrigerant charge is within limits. Charge the unit on low stage.

Purge gauge lines. Connect service gauge manifold to base-valve service ports.

Temporarily install a thermometer on the liquid line at the liquid line service valve and 4-6" from the compressor on the suction line. Ensure the thermometer makes adequate contact and is insulated for best possible readings. Use liquid line temperature to determine subcooling and vapor temperature to determine superheat.

- Check subcooling and superheat. Systems with TXV application should have a subcooling of 7 to 9°F and superheat of 7 to 9°F.
 - a. If subcooling and superheat are low, adjust TXV to 7 to 9°F superheat, then check subcooling.
 NOTE: To adjust superheat, turn the valve stem clockwise to increase and counter clockwise to decrease.
 - b. If subcooling is low and superheat is high, add charge to raise subcooling to 7 to 9°F then check superheat.
 - c. If subcooling and superheat are high, adjust TXV valve to 7 to 9°F superheat, then check subcooling.

6

SATURATED SUCTION PRESSURE TEMPERATURE CHART				
SUCTION PRESSURE	SATURATED SUCTION			
PSIG	R-22	R-410A		
50	26	1		
52	28	3		
54	29	4		
56	31	6		
58	32	7		
60	34	8		
62	35	10		
64	37	11		
66	38	13		
68	40	14		
70	41	15		
72	42	16		
74	44	17		
76	45	19		
78	46	20		
80	48	21		
85	50	24		
90	53	26		
95	56	29		
100	59	31		
110	64	36		
120	69	41		
130	73	45		
140	78	49		
150	83	53		
160	86	56		
170	90	60		

d. If subcooling is high and superheat is low, adjust TXV valve to 7 to 9°F superheat and remove charge to lower the subcooling to 7 to 9°F.

NOTE: DO NOT ADJUST THE CHARGE BASED ON SUCTION PRESSURE UNLESS THERE IS A GROSS UNDERCHARGE.

4. Disconnect manifold set, installation is complete.

NOTE: CHECK THE SCHRADER PORTS FOR LEAKS AND TIGHTEN VALVE CORES IF NECESSARY. INSTALL CAPS FINGER-TIGHT.

SUBCOOL FORMULA = SAT. LIQUID LINE TEMP. - LIQUID LINE TEMP.

SUPERHEAT FORMULA = SUCT. LINE TEMP. - SAT. SUCT. TEMP.

SATURATED LIQUID PRESSURE TEMPERATURE CHART

LIQUID PRESSURE	SATURATED LIQUID TEMPERATURE ºF		
PSIG	R-22	R-410A	
200	101	70	
210	105	73	
220	108	76	
225	110	78	
235	113	80	
245	116	83	
255	119	85	
265	121	88	
275	124	90	
285	127	92	
295	130	95	
305	133	97	
325	137	101	
355	144	108	
375	148	112	
405	155	118	
415	157	119	
425	n/a	121	
435	n/a	123	
445	n/a	125	
475	n/a	130	
500	n/a	134	
525	n/a	138	
550	n/a	142	
575	n/a	145	
600	n/a	149	
625	n/a	152	

Filler Plates

Filler plates are supplied on all 17.5, 21, & 24.5 inch chassis to be used for adapting the unit to a furnace one size smaller. If the plenum and furnace openings are the same size, the filler plates must be removed. See Figure 10.

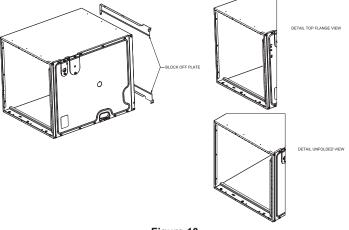
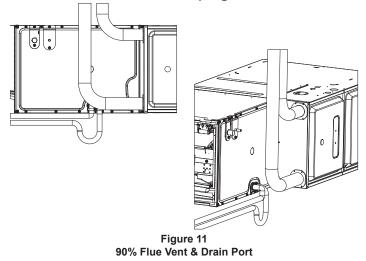


Figure 10 Block-off Plates & Duct Flange Detail

Drain Line and Flue Vent Piping



A minimum of 2.0" distance from the top of the furnace and the bottom of the coil pan is required.

NOTE: The coil must be installed with the line set and drain openings to the front of the furnace.

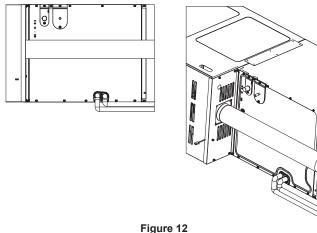


Figure 12 80% Flue Vent & Drain Port

Plastic Drain Pan Application



Do not use the coil pan shipped with the unit on oil furnaces or any application where the temperature of the drain pan may exceed 300°F. A high temperature drain pan such as kits HTP-A, -B, -C, and -D for normal cabinet widths of 14, 17.5, 21 and 24.5 inches, respectively, should be used for applications where the temperature exceeds 300°F and below 450°F. A field fabricated metal drain pan can also be used for applications where temperature exceeds 300°F. Failure to follow this warning may result in property damage and/pr personal injury.

NOTE: WATER COMING FROM THE SECONDARY LINE MEANS THE COIL PRIMARY DRAIN IS PLUGGED AND NEEDS IMMEDIATE ATTENTION.

Install a trap in the drain line below the bottom of the drain pan. If using a copper drain line, solder a short piece of pipe, minimum 6" length, to the connector before installing a drain fitting.

DO NOT over torque the $\frac{3}{4}$ " copper connector to the plastic drain connection. Using a wet rag or heatsink material on the short piece to protect the plastic drain pan, complete the drain line installation. Use Figure 6 as a template for typical drain pipe routing. This figure shows how to avoid interference with vent piping.

Return Ductwork

DO NOT TERMINATE THE RETURN DUCTWORK IN AN AREA THAT CAN INTRODUCE TOXIC OR OBJECTION-ABLE FUMES/ODORS INTO THE DUCTWORK.

Sealing Along The Panel Gap

IMPORTANT NOTE: TO PREVENT CABINET SWEATING AND AIRFLOW LEAK, APPLY FIELD PROVIDED INSULATION TAPE ALONG ALL JOINING SURFACES BETWEEN THE COIL, GAS FURNACE, DUCT WORK AND PANELS. SEE FIGURE 13.

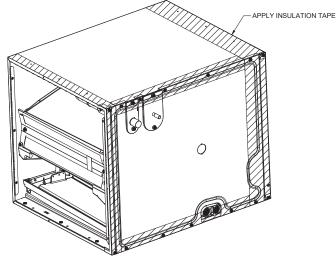


Figure 13 Panel Gap Sealing

Aluminum Indoor Coil Cleaning (Qualified Servicer Only)

This unit is equipped with an aluminum tube evaporator coil. The safest way to clean the evaporator coil is to simply flush the coil with water. This cleaning practice remains as the recommended cleaning method for both copper tube and aluminum tube residential cooling coils.

An alternate cleaning method is to use one of the products listed in the technical publication **TP-109 (shipped in the literature bag with the unit)** to clean the coils. The cleaners listed are the only agents deemed safe and approved for use to clean round tube aluminum coils. TP-109 is available on the web site in Partner Link > Service Toolkit.

NOTE: ENSURE COILS ARE RINSED WELL AFTER USE OF ANY CHEMICAL CLEANERS.

Top flanges can be bent for ease in installation to the duct flanges.

Removing Coil from Cabinet

In an event of removing taller coils from cabinet to service or replace; remove access panel, remove top tie rail to allow the coils to slide out of the cabinet.

After service or replacement slide the coil back in the cabinet and secure the top tie rail and re-install access panel. See Figure 14.

If the coil is hitting the bottom wrapper flange of the cabinet, pinch the mental flange (wrapper flange) closed, so the drain pan can slide in and out on the rail. See Figure 15 for an example of the flange that may need to be pinched shut.

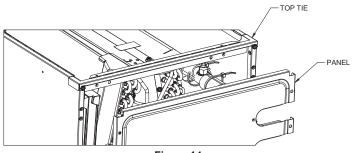


Figure 14

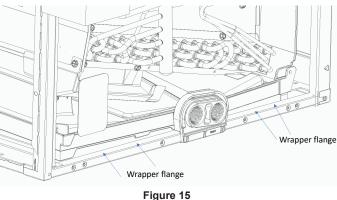
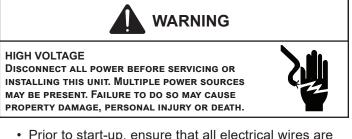


Figure 15 Wrapper Flange

Clean Comfort brand UV coil purifiers also can be purchased from distributor. Maximum UV lamp diameter to be used per delta plate knockout design is 1.375" to reduce the possibility of air leak.

Refer to UV coil purifiers product specification and installation manual for additional details.

Start-Up Procedure



- Prior to start-up, ensure that all electrical wires are properly sized and all connections are properly tightened.
- All panels must be in place and secured. For air tight application, gasket must be positioned at prescribed locations to achieve 1.4% leakage.
- Tubing must be leak free.
- Condensate line must be trapped and pitched to allow for drainage.
- Low voltage wiring is properly connected.
- Auxiliary drain is installed when necessary and pitched to allow for drainage.
- Unit is protected from vehicular or other physical damage.
- Return air is not obtained from, nor are there any return air duct joints that are unsealed in, areas where there may be objectionable odors, flammable vapors or products of combustion such as carbon monoxide (CO), which may cause serious personal injury or death.

START-UP CHECKLIST

Air Handler / Coil			
	Model Number		
	Serial Number		
ELECTRICAL			
Line Voltage (Measure L1 and L2 Voltage)	L1 - L2		
Secondary Voltage (Measure Transformer Output Voltage)	R - C		
Blower Amps			
Heat Strip 1 - Amps			
Heat Strip 2 - Amps			
BLOWER EXTERNAL STATIC PRESSURE			
Return Air Static Pressure		IN. W.C.	
Supply Air Static Pressure		IN. W.C.	
Total External Static Pressure (Ignoring +/- from the reading above, add total here)		IN. W.C.	
TEMPERATURES			
Return Air Temperature (Dry bulb / Wet bulb)		DB °F	WB °F
Cooling Supply Air Temperature (Dry bulb / Wet bulb)		DB °F	WB °F
Heating Supply Air Temperature		DB °F	
Temperature Rise		DB °F	
Delta T (Difference between Supply and Return Temperatures)		DB °F	
Air Handler / Coil - (Inverter Matched)			
INVERTER AH / COIL ONLY			
Check EEV and EEV wiring is secure (no adjustment required)			
Additional Checks			
Check wire routings for any rubbing			
Check product for proper draining			
Check screw tightness on blower wheel			
Check factory wiring and wire connections			
Check product for proper clearances as noted by installtion instructions			
°F to °C formula: (°F - 32) divided by 1.8 = °C °C to °F formula: (°C multiplied by 1.8) + 32 = °F		

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CUSTOMER FEEDBACK

We are very interested in all product comments. Please fill out the feedback form on one of the following links: Daikin Products: (<u>https://daikincomfort.com/contact-us</u>) Goodman® Brand Products: (<u>http://www.goodmanmfg.com/about/contact-us</u>). Amana® Brand Products: (<u>http://www.amana-hac.com/about-us/contact-us</u>). You can also scan the QR code on the right for the product brand you purchased to be directed to the feedback page.





GOODMAN® BRAND



PRODUCT REGISTRATION

Thank you for your recent purchase. Though not required to get the protection of the standard warranty, registering your product is a relatively short process, and entitles you to additional warranty protection, except that failure by California and Quebec residents to register their product does not diminish their warranty rights.

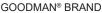
For Product Registration, please register as follows:

Daikin Products: (https://daikincomfort.com/owner-support/product-registration). Goodman® Brand products: (https://www.goodmanmfg.com/product-registration). Amana® Brand products: (http://www.amana-hac.com/product-registration). You can also scan the QR code on the right for the product brand you purchased to be directed to the Product Registration page.





DAIKIN





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