



## Hi-Efficiency Upflow/Downflow Cased Coils

2/4CXCA018AC3CUAA	2/4CXCC037AC3CUAA	2/4CXCD050AC3CUAA
2/4CXCA024AC3CUAA	2/4CXCB042AC3CUAA	2/4CXCC060AC3CUAA
2/4CXCB025AC3CUAA	2/4CXCC043AC3CUAA	2/4CXCD061AC3CUAA
2/4CXCB031AC3CUAA	2/4CXCB048AC3CUAA	
2/4CXCB036AC3CUAA	2/4CXCC049AC3CUAA	

**ALL phases of this installation must comply with NATIONAL, STATE AND LOCAL CODES**

**IMPORTANT** — This Document is **customer property** and is to remain with this unit. Please return to service information pack upon completion of work.

### A. GENERAL

These coils are designed for use in combination with a heat pump or cooling outdoor section using **R-22 (2CXC) or R-410A (4CXC) REFRIGERANT**. These coils may be converted for use with a horizontal furnace as well.

The 2/4CXC equipment have been evaluated in accordance with the Code of Federal Regulations, Chapter XX, Part 3280 or the equivalent. "Suitable for Mobile Home use" The height of the Furnace, Coil and discharge duct work must be 7 ft. or less.

Inspect the coil for shipping damaged. Notify the transportation company immediately if the coil is damaged.

### B. APPLICATION INFORMATION

#### 1. FURNACE AND COIL

The coil **MUST BE** installed downstream (in the outlet air) of the furnace.

These coils fit the 14½", 17½", 21", 24½" width furnaces without any adapters in vertical upflow and downflow applications.

#### 2. INDOOR UNIT AIRFLOW

Indoor unit must provide the required airflow for the heat pump or cooling combinations approved for these coils.

**IMPORTANT:** Review your installation requirements. Check the table on the outline drawings and note all dimensions for your coil before beginning the installation.

### C. RECOMMENDATION

If a coil is part of the total system installation, use the Installer's Guide packaged with the furnaces, and outdoor sections, and thermostat for physically installing those components.

### D. INSTALLING THE COILS

**NOTE:** *The 4CXC coils are for use with outdoor products using R410A refrigerant only.*



Figure 1

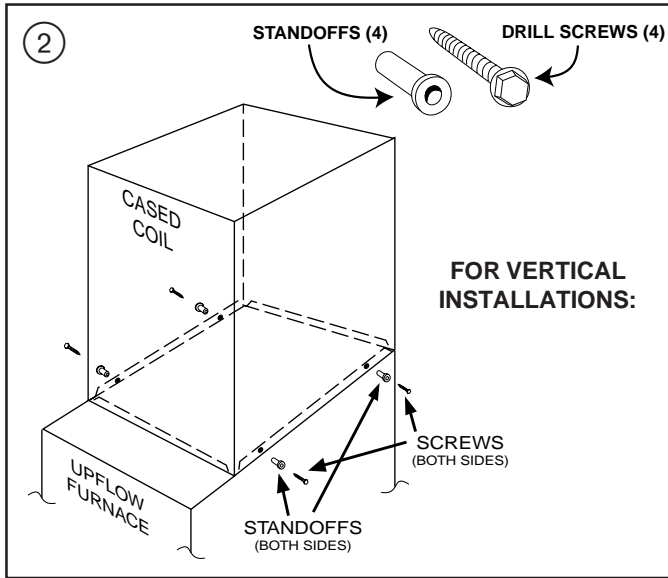
#### 1. UPFLOW GAS FURNACE - 2/4CXC

- Be sure the furnace is turned off and the flue pipe is removed if it is in the way.
- Apply gasket material (duct seal field supplied) to ALL mating surfaces between the furnace and the coil case.
- Set the coil case on top of the furnace.
- Reinstall the flue pipe (If removed).

#### 2. UPFLOW GAS FURNACE - Add-on Cooling

- Turn furnace power OFF and remove the flue pipe if necessary.
- Disconnect and remove a sufficient portion of the supply ductwork to provide clearance for the cased coil.
- Install the cased coil following the Installation Instruction section D-1 of these instructions.
- Reconnect the ductwork to the coil case.
- Replace the furnace flue pipe if it has been removed and fasten it securely.
- Turn the furnace power ON.

# Installer's Guide



Standoffs and screws (See Figure 2) are included with the cased coils for attachment to the furnace. There are clearance alignment holes near the bottom of the coil wrapper. Drill screws are used to engage the top flanges of the furnace. The standoff is inserted into the cabinet alignment hole (See Figure 3). The drill screws are inserted through the standoffs then screwed into the furnace top flange. The coil is always placed downstream of the furnace airflow. The above instructions apply if the coil is on top of an upflow furnace. The coil and furnace must be fully supported when used in the horizontal. The standoffs and screws are strictly for securing alignment, not for support in horizontal.

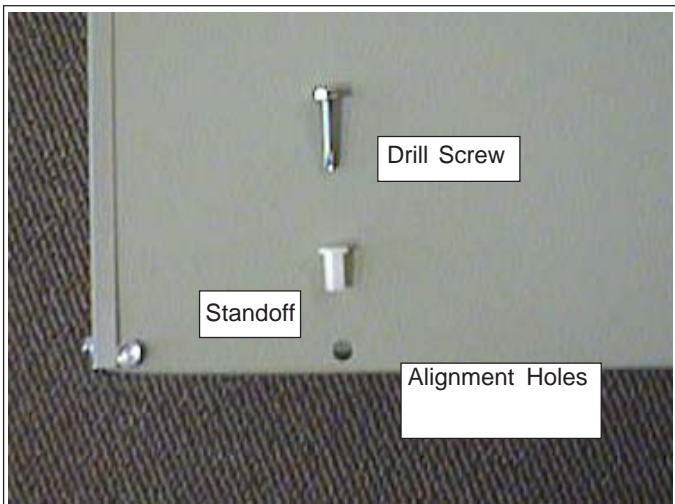


Figure 3

### 3. DOWNFLOW GAS FURNACE

When a coil is used with a downflow furnace, a subbase is not required between the coil case and combustible flooring.

- a. Place the coil case on the furnace supply air plenum.
- b. Secure the coil case to the plenum.

- c. Set the furnace on top of the coil case, making sure that the back side of the discharge opening is snug up against the duct flange at the top rear of the coil case.

- d. Secure the coil case to the furnace.

### 4. DOWNFLOW GAS FURNACE -- Add On Cooling

- a. Turn the furnace power OFF, remove the flue pipe, and disconnect the fuel and power lines.

- b. Raise the furnace to provide sufficient clearance to mount the coil case beneath it. Modifications will be required to the existing return air ductwork to permit the furnace to be raised.

- c. Place the coil case on the furnace supply air plenum.

- d. Secure the coil case to the plenum.

- d. Set the furnace on top of the coil case, making sure that the back side of the discharge opening is snug up against the duct flange at the top rear of the coil case.

- e. Reconnect the flue pipe and the fuel and power lines.

- f. Turn the furnace power ON.

### E. FIELD FABRICATED INTERCONNECTING LINES

- a. The following procedure should be used for connecting tubing to the coil or the Outdoor Unit.

- b. More information concerning the installation of refrigerant lines is covered in the Installers Guide packaged with the outdoor unit. Evacuation, leak testing and brazing procedures are included in those instructions before starting the installation of refrigerant lines.

**NOTE: Torque specification for TXV equals 1/6 turn passed finger tight. Back wrench as shown in figure 4**



## BRAZING TO EVAPORATOR

**IMPORTANT:** Do not unseal refrigerant tubing until ready to cut and fit refrigerant lines.

There is only a holding charge of dry air in the indoor coil, therefore no loss of operating refrigerant charge occurs when the sealing plugs are removed.

**Note:**

TXV bulb **MUST** be protected (wrapped with wet rag) or removed, while brazing the tubing. Overheating of the sensing bulb will affect the functional characteristics and performance of the comfort coil.

1. Remove both seals from the indoor coil. The braze caps are soft soldered.
2. Field supplied tubing should be cut square, round and free of burrs at the connecting end. Clean the tubing to prevent contaminants from entering the system.
3. **Run the refrigerant tubing into the stub tube sockets of the indoor unit coil.**

**PAINTED AREAS OF THE UNIT MUST BE SHIELDED DURING BRAZING.**

4. Braze and evacuate according to indoor and outdoor installation instructions.
5. Flow a small amount of nitrogen through the tubing while brazing.
6. Use good brazing technique to make leakproof joints.
7. Minimize the use of sharp 90° bends.
8. Insulate the suction line and its fittings.
9. Do NOT allow un-insulated lines to come into contact with each other.

**CAUTION:** Do not open refrigerant valve at the outdoor unit until the refrigerant lines and coil have been brazed, evacuated, and leak checked. This would cause contamination of the refrigerant or possible discharge of refrigerant to the atmosphere.

## F. LEAK CHECK

1. Using a manifold gauge, connect an external supply of dry nitrogen to the gauge port on the liquid line.
2. Pressurize the connecting lines and indoor coil to 150 PSIG maximum..
3. Leak check brazed line connections using soap bubbles. Repair leaks (if any) after relieving pressure after relieving pressure.
4. Evacuate and charge the system per the instructions packaged with the outdoor unit.

## G. CONDENSATE DRAIN PIPING

Condensate drain connections are located in the drain pan at the bottom of the coil/enclosure assembly. The female threaded fitting protrudes outside of the enclosure for external connection.

1. The drain hole in the drain pan must be cleared of all insulation.
2. Insulate the drain line to prevent sweating and dripping.

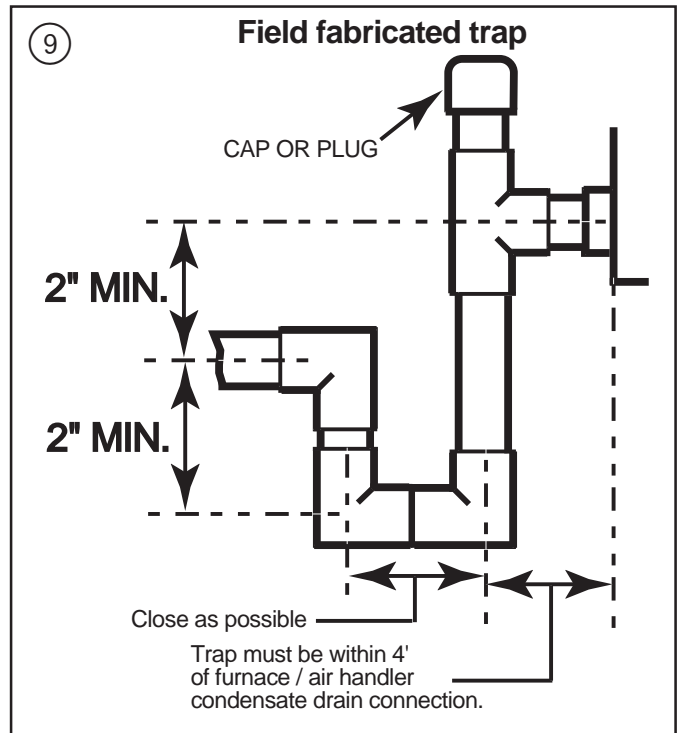




Figure 10

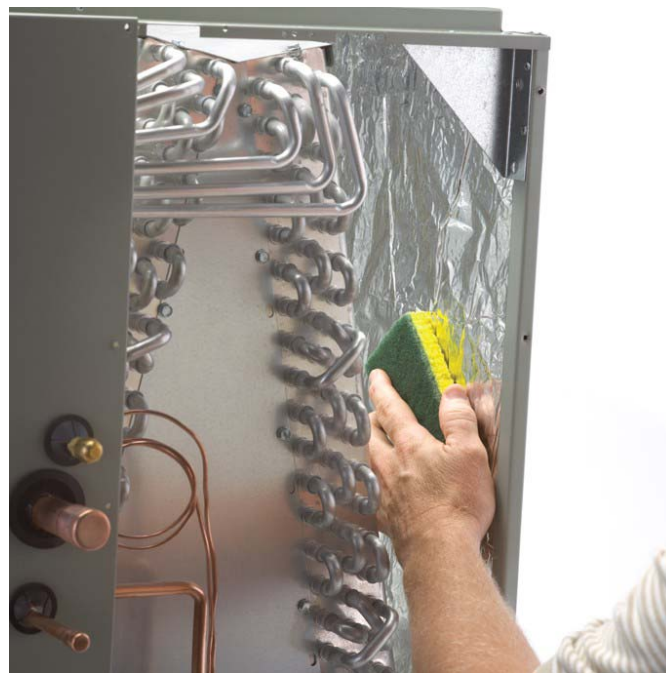


Figure 11

## H. CLEANING THE COIL

The two piece door (3-piece on 24.5" wide models) allows removal of the outer casing doors without interference from refrigerant or condensate lines. Once the outer doors are removed the split inner coil panels can be easily removed. The inside and outside of the coil can be easily cleaned with a brush and vacuum with the panels removed. See Figure 10.

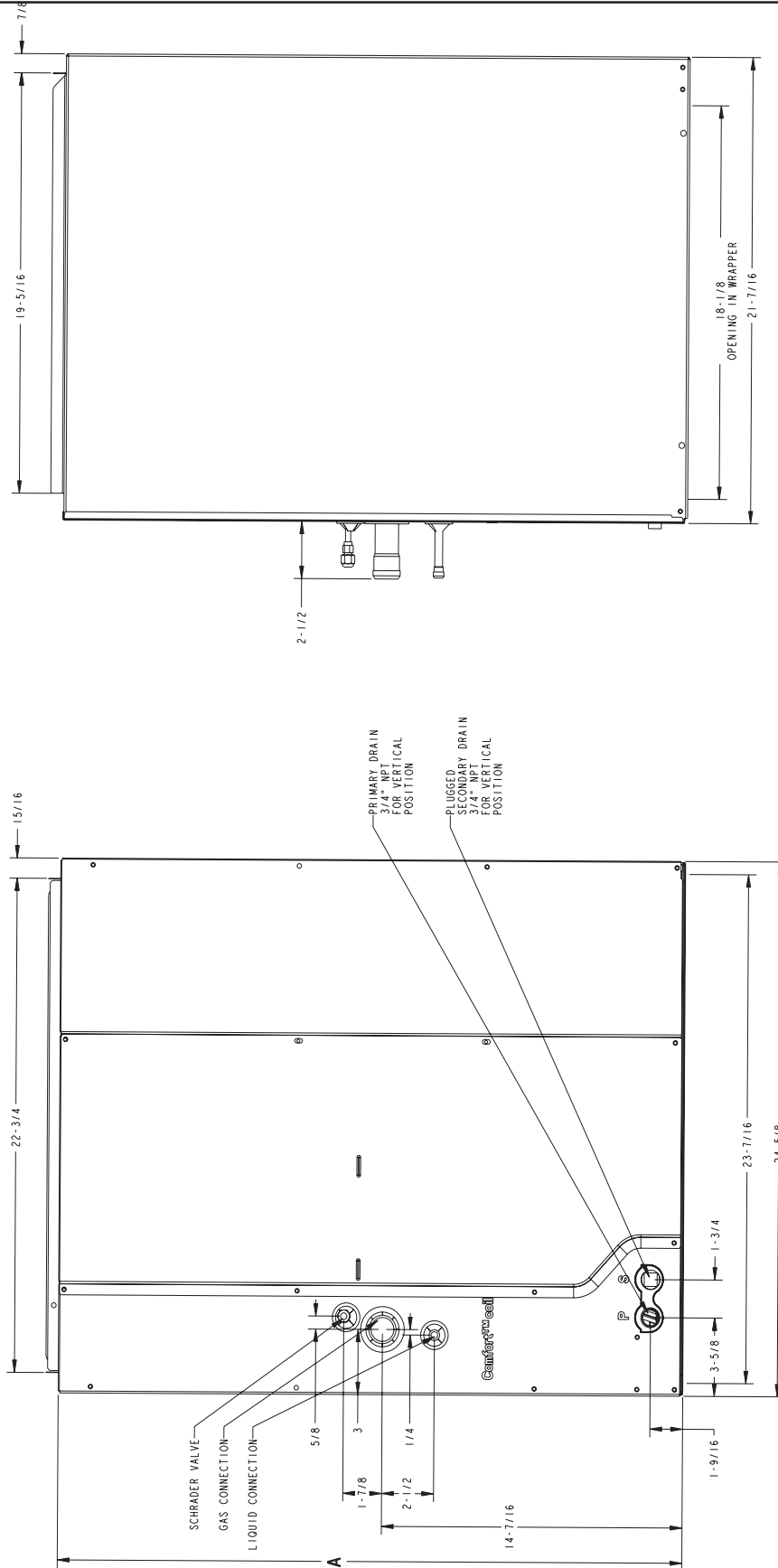
The foil covered insulation on 2/4CXA coils should be wiped down and residual dirt and dust should be vacuumed up to maintain good air quality. See Figure 11.



# Installer's Guide

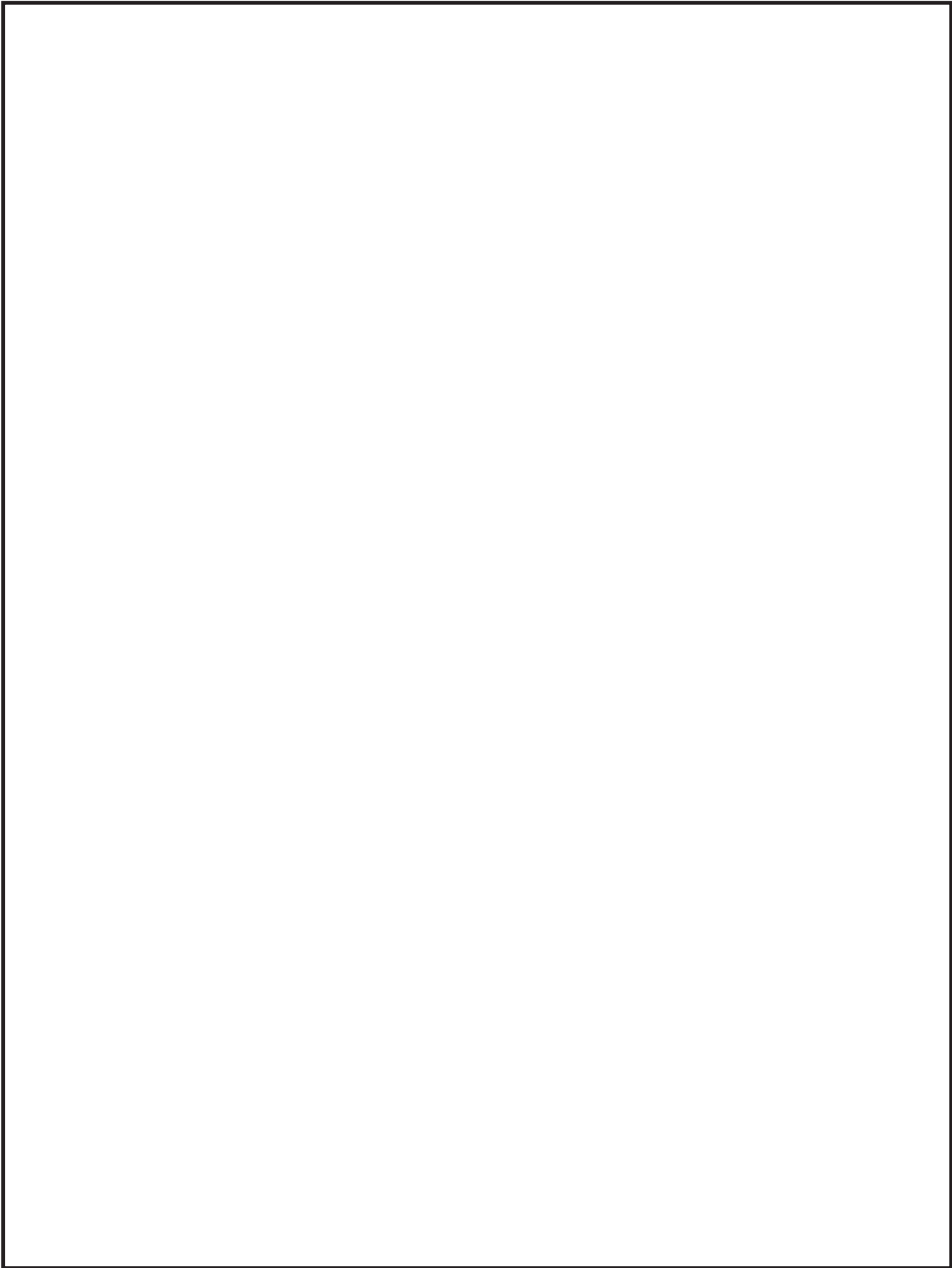
## Outline Drawing for 2/4CXCD050AC3CUAA, 2/4CXCD061AC3CUAA

(All dimensions are in inches)



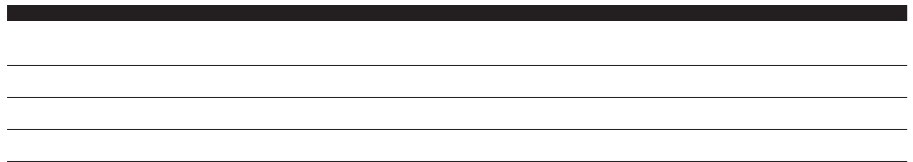
MODEL	2CXCD050AC3CUAA 4CXCD050AC3CUAA	2CXCD061AC3CUAA 4CXCD061AC3CUAA
WEIGHT (LBS.)		
REFRIGERANT CONTROL	TXV (NON-BLEED)	
HEIGHT "A" (IN)	26-7/8	30-1/16
GAS CONNECTION	1-1/8 BRAZE	
LIQUID CONNECTION	3/8 BRAZE	
MATCHED FURNACE WIDTH (NO ADAPTER REQUIRED)	24-1/2	
DRAIN PAN	PLASTIC	

From Dwg. D341289 Rev.5



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*For more information contact  
your local dealer (distributor)*



*Since the manufacturer has a policy of continuous product and product data improvement, it reserves the right to change design and specifications without notice.*