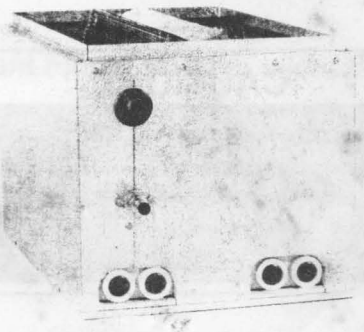
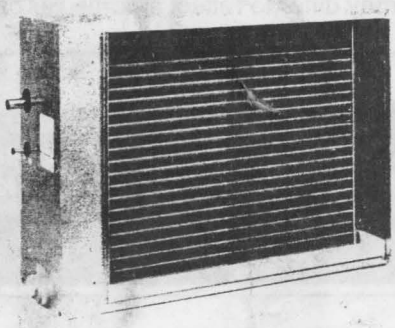
HealthySolutions™
Premium Evaporator Coils
by ADP

With HYDROTEC™ Drain Pans

Part # 96654002
February, 03

Evaporator Coil Installation Instructions





General

ADP evaporator coils are designed for use with condensing units or heat pump units. These instructions are intended as a general guide and do not supersede local codes in any way. Consult with local authorities having jurisdiction before installation.

Receiving

Check coil for shipping damage. If you should find damage, immediately contact the last carrier. Verify contents.

WARNING!

Coils are shipped with a 10 psi dry air holding charge. Puncture rubber plug on suction line to release charge before removing plugs. Note: The absence of pressure does not verify a leak. Check the coil for leaks before installing, or returning it to your local wholesaler.

WARNING!

Product contains fiberglass wool.
Disturbing the insulation in this product during installation, maintenance or repair will expose you to fiberglass wool. This material may cause respiratory, skin, and eye irritant. Breathing this may cause lung cancer. (Fiberglass wool is known to the State of California to cause cancer.)

IMPORTANT

The Clean Air Act of 1990 bans the intentional venting of refrigerant (CFC's and HFC's) as of July1, 1992. Approved methods of reclaiming must be followed. Fines and/or incarceration may be levied for non-compliance.

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Configuration

Verify the capacity and SEER requirements (if applicable) are appropriate with the matched condensing or heatpump units.

Coils are suited for R22 and R410 refrigerants and can be used with or without a TXV.

***HA**, **HE**, **CU** or **CT** series coils are set up for upflow/downflow applications and can be factory configured with optional side drain pan for horizontal applications. Vertical drain pans have drain connections on the right and left side and refrigerant the connections can be ordered for either left or right side

Mutiposition coils (with factory installed horizontal drain pan) can be configured for upflow, counterflow or horizontal installations.

The **HH**, **CR, CS6, CS7 & CS8** slab coils are set up for horizontal application only.

*The first letter may differ to reflect a particular cabinet color.

CAUTION!

When an evaporator coil is installed in an attic or above a finished ceiling, an auxiliary drain pan should be provided under the unit as specified by most local building codes.

CAUTION!

Drain pans are made of a polymer that can withstand temperatures up to 450 deg F.
Maintain 3" clearance on oil or drum type heat exchangers, and 1 ½" on sectionalized heat exchangers.

Installation -All coils

Position the coil on the outlet of the furnace using sheet metal screws. Coil should be level, or pitched slightly toward the drain connection. Select a blower speed that will allow 350-450 CFM per ton.

Counterflow –A coils

Position the coil on the outlet of the furnace using sheet metal screws. Coil should be level, or pitched slightly toward the drain connection. **Airflow should be set to 350 CFM per ton**. Refer to engineering guide for limitations. It is recommended that the coil be washed with a coil cleaner to remove any residual oil that may have been left from the manufacturing process.

Multiposition A Coils -Standard Horizontal Application

Position the coil on the outlet of the furnace using sheet metal screws as shown in **Figure 1** (top). Coil should be level, or pitched slightly toward the drain connection. Install splash guard (included) onto the coil outlet. Bottom flange of guard should rest on pan and sides screwed to the duct flanges.

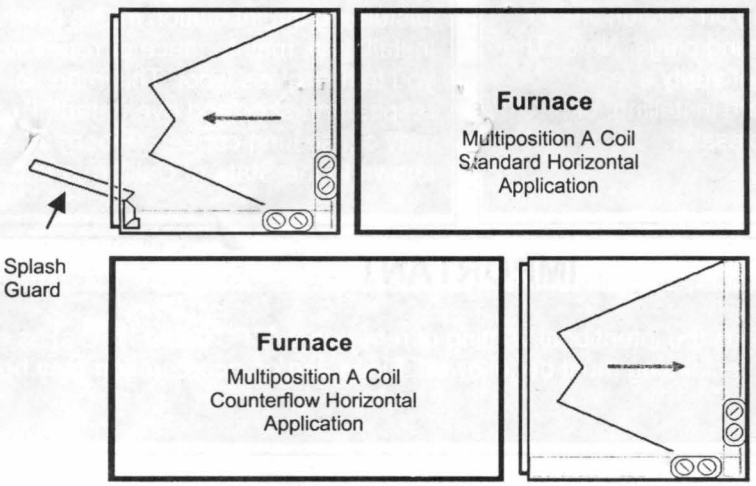


Figure 1

Multiposition A Coils -Counterflow Horizontal Application

Position the coil on the outlet of the furnace using sheet metal screws as shown in **Figure 2 (bottom)**. Coil should be level, or pitched slightly toward the drain connection. **Airflow should be set to 350 CFM per ton**. Refer to engineering guide for limitations. It is recommended that the coil be washed with a coil cleaner to remove any residual oil that may have been left from the manufacturing process.

Refrigerant Piping

Refrigerant connections are 3/8" ODF Liquid and 3/4" ODF (18-36 MBTU) or 7/8" ODF (42-60 MBTU) suction. Check outdoor unit manufacturer for proper line sizing.

Refrigerant Flow Controls

Coils can be configured with a standard florator assembly on the liquid line that will accept a field installed TXV or with factory installed TXV.

Note: Cased coils with florator assemblies are shipped with a cap and nut over the threaded fitting. Remove the nut slowly, allowing charge to escape, and secure liquid line stub (attached to cabinet) to florator assembly with nut.

Factory Installed Valves

As shipped from the factory, the TXV installed in each coil is chosen for the nominal BTUH capacity of the coil.

CAUTION!

TXV ranges are from 1 to 3 ton and 3.5 to 5 ton. Coil models set up for 3 ton cannot be used on 3.5 to and higher with out a TXV change. 5 ton models can be used down to 3.5 ton only, TXV change out required for 3 ton or below.

IMPORTANT

If coil contains a Non Bleed TXV and is used with a condensing unit containing a reciprocating compressor- a hard start mechanism will be required on the outdoor unit.

Condensate Drain

CAUTION!

All coils are provided with a secondary drain fitting. It should be trapped and piped to a location that will give the occupant a visual warning that the primary drain is clogged.

Coils are equipped with multiple drain connections. Determine the drain connections to be used and note the difference between the primary and secondary openings.

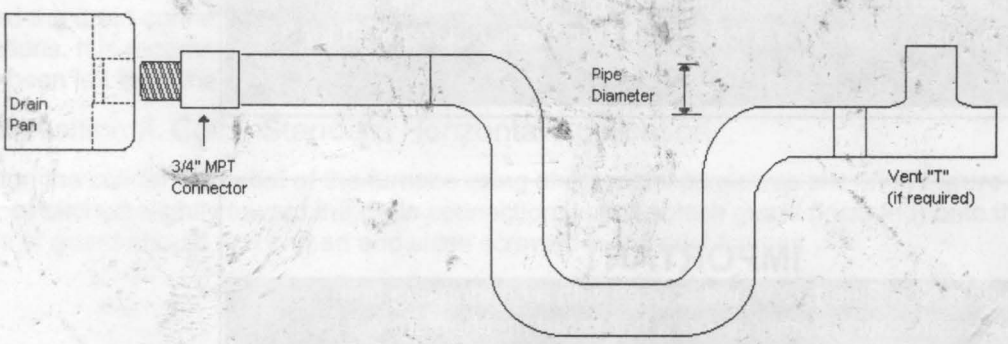
Drain plugs are provided f or all openings, remove and discard the appropriate plugs with ½" drive ratchet and verify that remaining plugs are tight. (Foot lbs)

Attach drain line to pan with ¾ " male pipe thread PVC fittings. Hand tight is adequate - **Do not over tighten!**

Do not reduce drain line sizes.

Route drain(s) line so they will not be exposed to freezing temperatures and do not interfere with accessibility to the coil, air handling system or filter. The drain should be pitched downward 1" per 10' with a 2 " trap as close to the coil as possible. If line makes a second trap, or has an extended run before termination, a vent tee should be installed after the trap closest to the pan.

If the coil is located in or above a living space where damage may result from condensate overflow, a separate ¾" drain must be provided from the secondary drain connection. Run this drain to a place in compliance with local installation codes where it will be noticed when unit is operational. Condensate flowing from the secondary drain indicates a plugged primary drain.



Prime the trap with water. Test line for leaks. Test water flow with unit in operation.