

Installation Instructions

Evaporator Coil



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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. **Read this installation manual and all "Warning" statements prior to installing the evaporator coil.**

Check coil for shipping damage and verify the contents of the box containing the evaporator coil. If you should find damage, immediately contact the last carrier. Verify the efficiency requirements are appropriate with the matched condensing or heat pump units such as capacity, SEER, EER, and/or HSPF. Check outdoor unit manufacturer for proper line sizing. **Coils are shipped with a 10 psi dry air holding charge. Puncture rubber plug on suction line to release charge before removing plugs.** The absence of pressure does not verify a leak. Check the coil for leaks before installing or returning it to your wholesaler.

Position the coil on the outlet of the furnace using sheet metal screws. Drain pans are made of a polymer that can withstand temperatures up to 450°F. **Maintain a 3" clearance on oil or drum type heat exchangers and 1½" on sectionalized heat exchangers.** Coil should be level, or pitched slightly toward the drain connection. **Airflow face velocity above 350 ft/min is not recommended for downflow or counterflow applications due to potential water blow-off.** Refer to Specification Guide for limitations.

** Note: Large tonnage A & H coils (greater than 5 Tons) are not AHRI certified and do not have Microban protection.



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HORIZONTAL A-COIL & SLAB COIL

Horizontal A and HH Slab Coils are designed for horizontal applications only. Proper performance for Horizontal A-Coils requires that the air flow out through the tip of coil (Figure 7). HH Coils are bidirectional and require a transitional duct to complete installation. Horizontal A-Coils 17.5" and taller include furnace plate adaptors to facilitate proper fit with furnaces of different widths. For Horizontal A-Coils with suction lines on side of cabinet, the suction line section inside the cabinet should be insulated with Armaflex® insulation (Figure 8).



Figure 7 – Horizontal A-Coil airflow direction

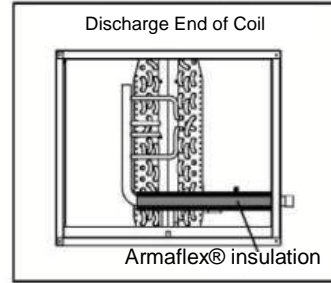


Figure 8 – Horizontal A-Coil w/ side connections



REFRIGERANT CHARGING INSTRUCTIONS

Outdoor temperature should be 60°F or higher. Set the system to cooling mode and charge per the applicable method listed below. For Heat Pump units initially charged in cooling mode, final adjustment to charge in heating mode is acceptable if necessary. When charging Heat Pumps in the heating mode, please refer to the outdoor unit's charging instructions.

FIXED ORIFICE

1. Run system for at least 10 minutes to allow pressure to stabilize.
2. Add or recover refrigerant until the superheat matches the table below.

Outdoor Air Temp. (°F)	Superheat (°F)		
	Min	Nom	Max
60	28	31	34
65	25	28	31
70	22	25	28
75	20	22	25
80	16	20	22
85	13	16	20
90	10	13	16
95	6	10	12
100	6	8	10
105	4	6	8
110	4	5	6
115	4	5	6

EXPANSION VALVE

1. Run system for at least 10 minutes to allow pressure to stabilize.
2. Add or recover refrigerant until the subcooling matches the table below.
3. If equipped, adjust the valve until the superheat matches the table below.

Subcooling (°F)			Superheat (°F)		
Min	Nom	Max	Min	Nom	Max
10	12	14	6	10	12



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2175 West Park Place Boulevard
 Stone Mountain, GA 30087
www.adpnow.com