



5 TON "A" COIL

Designed To Fit The New IL-Series
Sectional Lo-Boy and Hi-Boy Furnace

PERFORMANCE						
Condensing Unit Model Number	Evaporator Coil Model Number	Rated Airflow		Cooling Btuh	EER (3 Ph)	SEER
		CFM	"H ₂ O"			
48ECQ2	5ACQ2	1600	.15	50,000		9.10
48ECQ2-B	5ACQ2	1600	.15	50,000	8.65	9.10
60ECQ1	5ACQ2	1900	.30	54,500		8.10
60ECQ1-B	5ACQ2	1900	.30	54,500	8.30	8.10

COOLING COIL SPECIFICATIONS	
Model	5ACQ2
Evaporator -- Air Flow	1600 - 1900
CFM/Press. Drop In. Water	.15 - .30
Face Area Sq. Ft/Row/Fins per in.	5.33/3/12
Refrigerant Control	Orifice
Shipping Weight Lbs.	50

COOLING COIL DIMENSIONS (In Inches)				
"A" Coil	A	B	C	Drain Pan Opening (W&L)
5ACQ2	22	20½	24	14-¾ x 15-¼

"A" Coil

COIL DIMENSIONS (In Inches)

Features high capacity at low air side pressure drop and an interchangeable orifice restrictor to optimize performance to match each outdoor unit combination.



Specifications subject to change without notice.
BARD MANUFACTURING CO. • BRYAN, OHIO 43506
 Dependable quality equipment...since 1914

SPLIT SYSTEM AIR CONDITIONERS

Evaporator Installation Instructions

These instructions cover the indoor coil sections listed below, all of which are supplied less blower. The outdoor compressor units shown below can also be matched with blower coil indoor sections, and those applications are covered by separate installation manuals shipped with the respective blower coil units.

APPROVED MATCHED COMBINATIONS AND BTU RATINGS

Outdoor Unit	Indoor Coil Model	Btu/Hour	Orifice Part No.	Orifice I.D.
48ECQ2	SACQ2	50,000	5625-080	.080
60ECQ1	SACQ2	54,500	5625-080	.080

RATED AIRFLOW, STATIC PRESSURE DROP (WET COIL) AND APPROVED AIRFLOW DIRECTION

Rated Cfm/Pressure Drop Inches of H ₂ O	Airflow Direction
1600/.18	Up-Down
1900/.29	Up-Down

Standard Rating Conditions 95°F db outside, 80°F db/67°F wb inside.

APPLICATION INFORMATION

CONDENSATE DRAIN TRAP

It is very important to provide a trap in the condensate drain line to allow a positive liquid seal in the line and assure correct drainage from the coil condensate pan.

INSTALL CONDENSATE DRAIN TRAP BELOW. USE DRAIN CONNECTION SIZE OR LARGER. DO NOT OPERATE UNIT WITHOUT TRAP. TRAP MUST BE LEVEL OR SLIGHTLY CLINED TOWARD DRAIN.

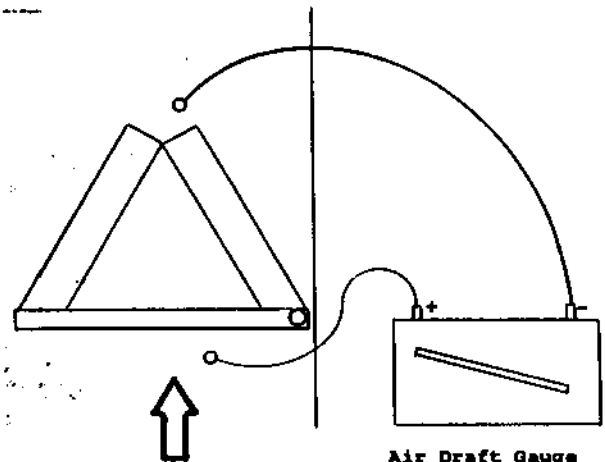
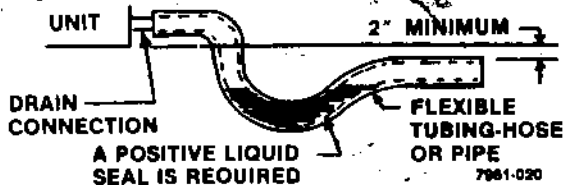


Figure 1.

SLANT COIL AND A-COIL TYPES

Every coil must have the required minimum clearance between furnace heat exchanger and bottom of coil, and not exceed a maximum of two inches between the top of coil and bottom of horizontal ductwork.

When the ductwork takes off from only one side of the plenum, the minimum distance from the coil to top of plenum is six inches.

A duct should never be located between the coil and the furnace supply. If your furnace has a transition in the duct, it should be at least six inches from the coil.

Clearance should be maintained on both sides between coil and plenum to prevent air from passing coil.

It is important to provide a removable access door in the plenum slightly larger than the coil for servicing or cleaning the coil.

REFLOW PRESSURE DROP MEASUREMENT

A manometer or air draft gauge is required to check the air pressure drop across the indoor evaporator coil section.

The pressure (or positive) side of the gauge should be connected to the air inlet (entering) side of the coil, and the pressure (or negative) side of the gauge to the downstream (leaving) side of the coil. See Figure 1.

EXPANSION DEVICE

The "Distributor-Eliminator" provides the function of the expansion device as well as distributes the refrigerant equally to all evaporator circuits. It features a "take apart" brass body which houses a removable piston-orifice assembly which meters the proper amount of refrigerant flow and serves as the expansion device. This orifice can be removed and replaced. The coil is shipped with the proper diameter orifice to match the 48ECQ2 and 60ECQ1 outdoor unit. It is important that when inserting a new or different size orifice that it be installed with the teflon seal pointing towards the distributor feeder tubes as shown in Figure 2.

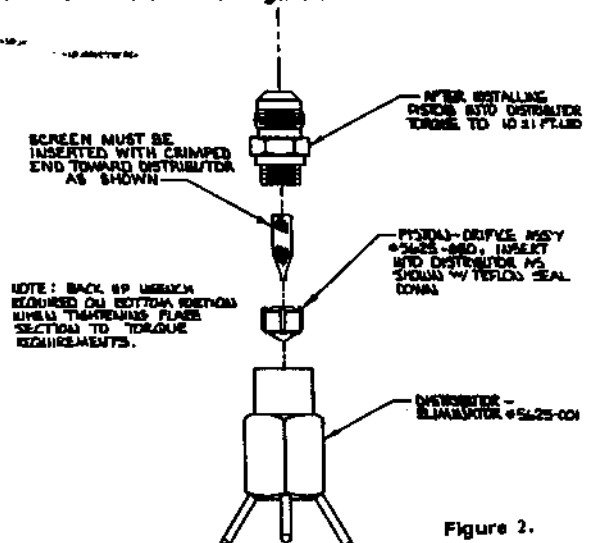


Figure 2.