SPLIT SYSTEM AIR CONDITIONERS

EVAPORATOR INSTALLATION INSTRUCTIONS

CENERAL

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

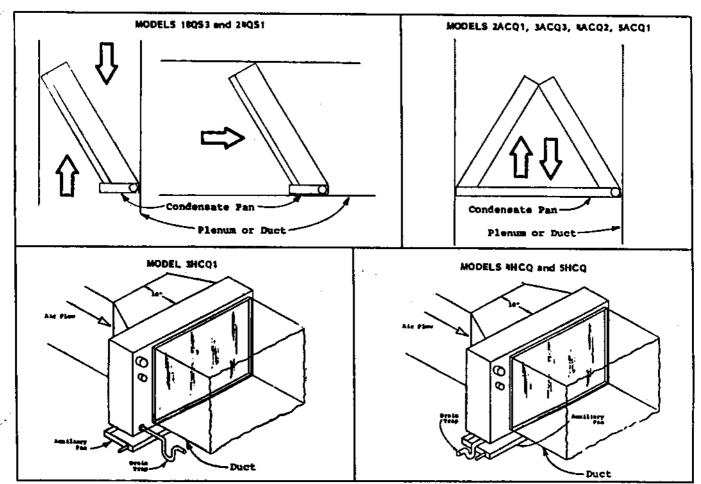
RATED AIRFLOW, STATIC PRESSURE DROP (WET COIL) AND APPROVED AIRFLOW DIRECTION

Outdoor Unit Model	Indoor Coll Model	Btu/Hour	Matching Combination	Rated Cfm/Pressure Drop (Inches of H ₂ 0	Airflow Direction
18ECQ2	18QS3	17,000	18ECQ2/18Q53	600/.30	Up-Down-Horlz
ZRECQA	24Q\$1	23,200	24ECQ4/24QS1	879/. 30	Up-Down-Horiz.
24ECQ#	2ACQ1	23,400	24ECQ4/2ACQ1	470/.30	Up-Down
30ECQ 4	BACQ3	28,600	30ECQ4/1ACQ3	1100/.2B	Up-Down
30ECQ4	3HCQ1	29,600	30ECQ4,3HCQ1	1000/. 30	Horiz.
31ECQ2	3ACQ3	29, 00	MECQ2/3ACQ3	1050/.25	Up-Down
31ECQ2	3HCQ1	30,400	31ECQ2/3HCQ1	1035/.30	Horiz.
36ECQ5	3ACQ3	36, 400	36ECQ5/3ACQ3	1180/.30	Up-Down
36ECQ5	3HCQ1	35,800	MECQ5/MCQ1	1000/.30	Horiz.
37ECQ1	3ACQ3	36,200	37ECQ1/3ACQ3	1180/. 10	
37ECQ1	JHCQ1	35,400	37ECQ1/3HCQ1	1000/. 30	Up-Down
42EC01	MCQ2	41,000	12ECQ1/MCQ2		Horiz,
42ECQ1	AHCO	42.500	42ECQ1/4HCQ	1450/.23	Up-Down
48ECQ2	4ACQ2	45,000		1400/.21	Horiz.
48ECQ2	AHCO		48ECQ2/MACQ2	1690/. 30	Up-Down
		45,000	48ECQ2/4HCQ	1600/.30	Horiz.
48ECQ2	5ACQ1	50,000	48ECQ2/5ACQ1	1800/.18	Up-Down
60ECQ1	5ACQ1	54,000	60ECQ1/5ACQ1	1990/.28	Up-Down
60ECQ1	SHCQ	51,000	60ECQ1/SHCQ	1650/. 10	Horiz.

ARI Standard Rating Conditioning \$5°F db outside, 60°F db, 67°F wb Inside.

AIRFLOW DIRECTION

Shown below, by model number, are the intended mounting positions of the indoor evaporator coil units.



APPLICATION INFORMATION

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 plenum, the minimum distance from top of coll to top of plenum is six inches.

A duct should never be located between the coil and the source of air supply. If your coil is larger than the top of your furnece, a transition is required with a minimum of three inches.

CAUTION: Be sure to seal area on all sides between coil drain pen and pienum to prevent air from bypassing coil.

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

FLAT COIL (H-COIL) TYPES

The "H" models are horizontal type evaporator coils designed to be installed in a horizontal duct run with the air flowing horizontally through the evaporator.

If you have a coll that is either larger or smaller than the opening of the furnace or the existing ductwork, you must transition as shown. Transition should be a minimum of 18 inches in length. Best installation practice would dictate a vibration break (canvas for cooling and asbestos for cooling and heating installations).

The trunk and branches of the duct system must be on the downstream side of the evaporator coil in all cases.

CAUTION: Make sure all duct connections are sealed so as to be air tight.

Cover transitions and ducts with adequate insulation covered with complete sealed vapor berrier. This is iMPORTANT to prevent sweating and to reduce cooling loss in duct work.

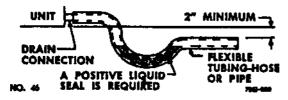
When the evaporator coil is Installed in an attic an auxiliary drain pen must be under the entire unit. Drain lines from the auxiliary drain pan must be run separately from the regular drain line and readily visible on outside of the building. Be sure to explain the purpose of this auxiliary drain line to the homeowner.

Condensate drain lines in attic should be insulated to avoid condensation.

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 SHOWN BELOW. USE DRAIN CONNECTION SIZE OR LARGER, DO NOT OPERATE UNIT WITHOUT TRAP, UNIT MUST BE LEVEL OR SLIGHTLY INCLINED TOWARD DRAIN.



AIRFLOW 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 connect to the air inlet (entering) side of the coil, and the suction (or negative) side of the gauge to the downstream (leaving) side of the coil. See illustration.

