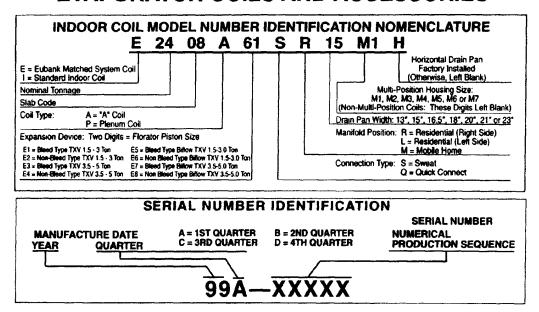
INSTALLATION INSTRUCTIONS EVAPORATOR COILS AND ACCESSORIES



NOTE TO INSTALLER

These instructions are for the use of qualified individuals specially trained and experienced in installation of this type equipment and related system components.

Installation and service personnel are required by some states to be licensed. Persons not qualified shall not install this equipment nor interpret these instructions.

WARNING

Improper installation may damage equipment, can create a hazard, and will void the warranty.

NOTE

The words "SHALL" and "MUST" indicate a requirement which is essential to satisfactory and safe product performance. The words "SHOULD" and "MAY" indicate a recommendation or advice which is not essential and not required but which may be useful or helpful.

DANGER

Before performing any work on this equipment, the power supply must be turned OFF at the household service box to avoid the possibility of shock, injury or damage to equipment.

WARNING; DANGER OF EXPLOSION, BODILY INJURY OR DEATH

PRECHARGED AIR CONDITIONING COMPONENTS CONTAIN A REFRIGERANT UNDER HIGH PRESSURE, TO AVOID POSSIBLE PERSONAL INJURY, DO NOT PUNCTURE TUBING OR OTHER SYSTEMS PARTS. DO NOT EXPOSE SYSTEM PARTS TO HIGH TEMPERATURES. WHEN THIS EVAPORATOR COIL IS INSTALLED WITH A FURNACE, DO NOT OPERATE FURNACE FOR HEATING UNTIL AFTER THE REFRIGERANT LINES HAVE BEEN CONNECTED BETWEEN THE COIL AND OUTDOOR UNIT.

INDOOR COIL DATA

I AND E MODEL	AVAILABLE DRAIN PAN WIDTHS	DESIGN	FACE	FIN-IN ROWS	LINE CONNE	CTIONS O.D.		WT. LBS.				(Î)							ROUG / CFN			
INDOOR COILS	IN INCHES :	RANGE	SQ. FT.	DEEP	LQ./SUCT.	LQ/SUCT.	ā	\$	600	700	800	900	1000	1100	1200	1300	1400	1600	1600	1700	1801	1900
1802A	* <u>13</u> , 15, 16, 18	600-900	2.67	18/1	3/8 / 3/4	#6 / #11			.2	.26	.32	.36									Γ	Γ
2408A	* <u>13</u> , 15, 16, 18	600-900	2.22	14/2	3/8 / 3/4	#6 / #11			.19	.24	.30	.34				Г			Γ	Γ		Π
2419P	N/A	600-900	2.00	10/3	3/8 / 7/8	#6 / #11			.19	.21	.26	.31								Γ	Γ	Γ
2444P	NA	600-900	2.00	10/4	3/8 / 7/8	#6/#11			.22	.26	.30	.33						Γ	Γ		Γ	Γ
3009A	13, * <u>15</u> , 16, 18	600-1000	2.67	14/2	3/8 / 7/8	#6/#11			.15	.18	.25	.27	.32							Γ	Γ	Γ
3610A	13, 15, <u>16,</u> 18	700-1200	3.11	14/2	3/8 / 7/8	#6 / 11				.12	.16	.22	26	.30				Г		Г	Γ	Γ
3611A	13, 15, * <u>16,</u> 18, 20	800-1250	3.56	14/2	3/8 / 7/8	#6 / #11					.15	.20	24	.28	.32	.36					Γ	Г
3612A	13, 15, <u>*16,</u> 18, 20	800-1300	4.00	14/2	3/8 / 7/8	#6 / #11					.12	.15	.20	.25	.30						Г	Γ
3612P	N/A	800-1300	4.00	14/2	3/8 / 7/8	#6 / #11						.20	23	.26	.29	.32	.36				Г	
4215A	13, 15, 16, 18, *20	1000-1400	4.00	14/2	3/8 / 7/8	#6 / #11						.15	.18	.21	.26	29	.32					
4215P		1000-1350	4.00	14/2	3/8 / 7/8	#6 / #11						.20	.23	.26	29	.32	.36				Γ	
4814A	13, 15, 16, 18, <u>20</u>	1200-1600	4.88	14/2	3/8 / 7/8	#6 / #11					\neg	\neg		.16	.20	23	.27	.30	.33			
4814P		1200-1600	4.88	14/2	3/8 / 7/8	#6 / #11								.16	.20	.23	.27	.30	.34			
4824A	16,18, <u>20</u>	1000-1500	4.00	10/3	3/8 / 7/8	#6/#11						.16	.19	.22	.24	.28	.31					
4824P		1000-1450	4.00	10/3	3/8 / 7/8	#6/#11					\exists	.18	.21	.23	.26	.30	.33					
5445A	16.18. <u>20</u>	1000-1450	4.00	10/4	3/8 / 7/8	#6 / #11				٦	\exists	7	23	.25	.27	.29	.36	.40				
4825A	16,18, 20	1200-1600	4.44	10/3	3/8 / 7/8	#6/#12					\exists	7	٦	.18	.22	.25	.29	.32	.35			
6026A	16,18, <u>20</u>	1400-1800	4.89	10/3	3/8 / 7/8	#6/#12					7			7			.25	.27	.29	.31	.35	.38
6026P		1400-1700	4.89	10/3	3/8 / 7/8	#6/#12						7					.27	.29	.31	.36	.40	.44
6027A	16, 18, <u>20</u>	1400-1800	5.33	10/3	3/8 / 7/8	#6/#12					T	T	7		٦		.22	.25	.27	29	33	.36
6016A	<u>21,</u> 23	1400-1900	5.81	14/2	3/8 / 7/8	#6/#12				7	T	T					.17	.20	.23	.26	.30	.33
6016P		1400-1750	5.81	14/2	3/8 / 7/8	#6/#12					T	T					.22	.25	.28	.32	.36	.38
6037A	21. 23	1400-1900	5.81	11/3	3/8 / 7/8	#6/#12				7	7	す	ヿ	7	7		.20	.23	.25	.27	.32	.34
6037P		1400-1750	5.81	11/3	3/8 / 7/8	#6/#12			\exists	7	1	7	7	7	7	7	.24	.26	.29	.33	.37	.40
6040P		1400-1700	6.72	11/3	3/8 / 7/8	#6/#12			7	寸	1	7	1	\dashv	7	7	.25	.27	.30	.34	38	41

*Airflow data base on standard drain pan widths. Underlined drain pan is standard width. Wet coil Static

DRAIN PAN WIDTH IN INCHES		A SERIES AIR HANDLERS									
	A08	A12	A16	A18	A20						
16	X	×	<u> </u>								
20			×	х	×						
21			X	х	×						

NOTICE

This installation manual is provided to insure the proper Installation and most satisfactory performance of your Eubank equipment. The instructions contained herein shall not be deemed to extend, modify, alter or expand any of the representations contained in the EUBANK LIMITED WARRANTY PLAN.

SYSTEM COMPONENTS CHECK

It is important that the system air handler or furnace and duct system be properly sized to provide proper air flow for the evaporator coil. Refer to the evaporator coil performance data for coil pressure drop at rated airflow. This data should be used to size the duct system and furnace or air handler. Filters must be provided on the return air side of coils and must be accessible for cleaning replacement.

INSPECTION AND UNPACKING

A thorough inspection of the shipping container should be made immediately upon receiving your unit. Look for any punctures or openings, and if it appears damage has occurred, it should be noted on the freight bill before signing name. The delivering carrier should be contacted immediately to inspect damage, and no installation work should begin until this inspection is completed.

PRELIMINARY REQUIREMENTS

A. LOCAL CODES: The installer shall comply with all local codes and/or regulations. Such codes and/or regulations should take precedence over any recommendations contained herein.

B. Exterior surface of coil housing may sweat when unit is installed in non-air conditioned space such as an attic or garage. The installer must insulate the cabinet with 1" fiberglass insulation or supply a full size auxiliary drain pan for these applications.

C. CAUTION: When coils are used with air handlers or furnaces and installed above a finished ceiling or living area, or down flow applications, an auxiliary sheet metal condensate drain pan must be fabricated and installed under entire unit. Never locate the coil in return duct to a gas or oil furnace. Provide a service inlet to the coil for inspection and cleaning. Keep the coil pitched toward the drain connection.

D. NOTE: For elimination of possible water blow-off and maximum performance, coil should be sprayed thoroughly with liquid detergent, such as 409, and rinsed with clean water before installation. If coil is not sprayed with detergent, approximately 50 hours of break-in time is required before equivalent performance is obtained.

E. Coil refrigerant connections are available with either sweat or quick-connect connections. On quick-connect models use a back-up wrench when connecting suction and liquid line fittings.

CONDENSATE DRAIN PLUMBING

Coils are provided with a 3/4" male pipe drain fitting, a 1/2" male pipe emergency drain fitting, two 1/2" plugs and one 3/4" plug. Install these fittings using teflon tape or pipe dope and tighten securely. Do not over tighten these fittings, it could result in damage to the drain pan. For downflow, or any installation where condensate overflow could create a hazard or water damage, the 1/2" emergency drain fitting must be used. The emergency drain must be left open. If the emergency drain has to be piped away from the air handler, its outlet must be installed in a location that would allow any drainage to be immediately noticed.

CONDENSATE DRAIN 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. UNIT ORAIN CONNECTION FLEXIBLE TUBING-HOSE A POSITIVE LIQUID OR PIPE SEAL IS REQUIRED

Figure 1

NOTE: FAILURE TO COMPLY CAN DAMAGE EQUIPMENT AND CREATE A HAZARD.

- 1. Do not connect the drain line to a closed sewer. Run line to an open drain.
- 2. Never terminate an open sewer or drain connection within the return air duct, platform or return plenum
- 3. Pitch the drain line at least 1/4" per foot away from the drain pan.
- If condensate drain connection is on the negative side of the blower, a trap must be installed to insure positive drainage. (See Fig. 1).
- 5. Condensate drain lines should not be reduced in size from the connection size supplied.
- The drain line should be insulated where necessary, to prevent sweating and damage due to condensate forming on the outside surface of the line.
- 7. Test condensate drain line with water before operating system.

HEAT EXCHANGER CLEARANCE

For gas furnace applications, refer to furnace installation instructions for proper heat exchanger clearance.

EXPANSION VALVE COILS

Field Installed Expansion Valves

- Disassemble the flow rater body and remove the piston from the distributor. Be sure to save the o-ring in the tale piece.
- Install the expansion valve between the tale piece and the distributor as shown in figure 2. Be sure to install the o-rings as shown in figure 2.

Factory and Field Installed Expansion Valves

 On factory installed expansion valve the txv's sensing bulb is not installed to the coil's vapor line. The bulb and capillary tubing should be routed outside of the coils casing making sure the capillary tube will not

be directly against sharp casing edges. The bulb should be installed after the vapor and liquid line is soldered and leak checked to prevent subjecting the bulb to excessive heat. To assure accurate sensing and the best performance the bulb should be placed on the upper half of the vapor line at the two or ten o'clock position and at least 6" from the coll manifold as shown in figure 2.

- Attach the bulb securely with the copper strap provided.
- Insulate the bulb thoroughly with a suitable insulation material such as cork tape.

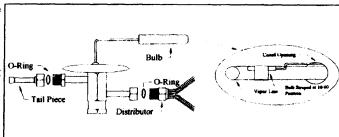
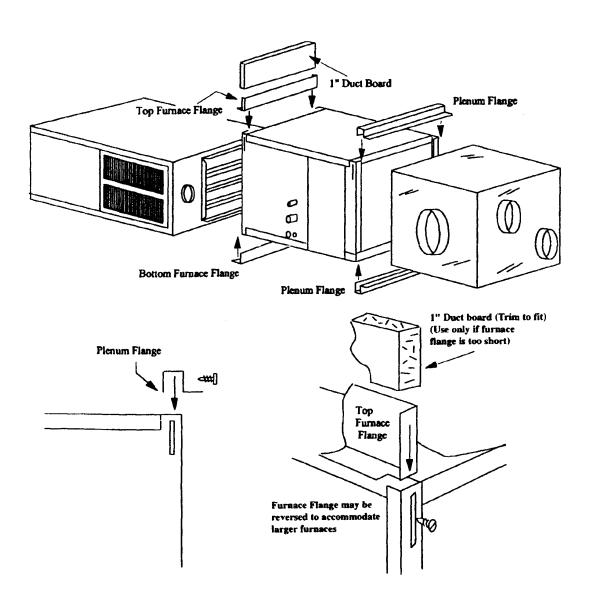


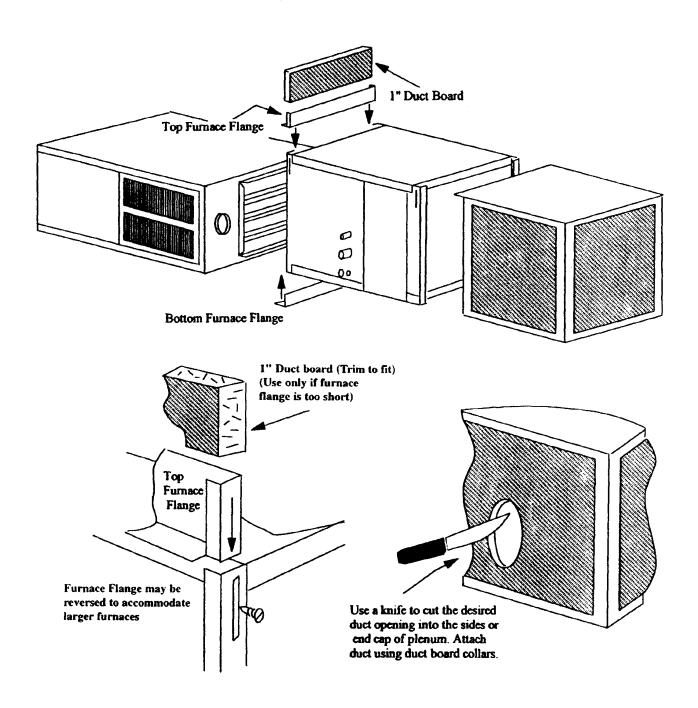
Figure 2

INSTALLATION INSTRUCTIONS FOR HORIZONTAL COIL WITH AND WITHOUT DETACHABLE PLENUM

- Determine if installation is a left or right hand installation. (Coil is shipped in the preferred left hand position. If a right hand installation is needed, reverse flanges.)
- 2. Arrange and screw flanges.
- 3. Set furnace on top of bottom furnace flange.
- Slide the top furnace flange into position and screw to the furnace. (On smaller furnaces 1" duct board may need to be trimmed to fit).
- 5. Attach plenum to the coil.
- Seal furnace and plenum to coil to meet local code requirements.
- 7. Connect drain lines to meet local code requirements.
- For installations in a non-conditioned space, a full-size auxiliary drain pan must be used.

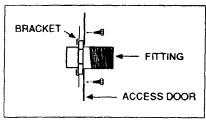


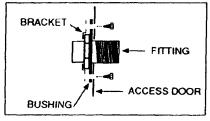
HORIZONTAL COIL WITH DETACHABLE PLENUM



Q MODEL EVAPORATOR COILS

- 1. For models with quick connect fittings installed into A Series Air Handlers or coil housings, 3 screws for each fitting and one metal bushing is provided with each Q model coil.
- 2. To install the suction line fitting onto the coil access panel:
 - A. Install the fitting into the suction line hole.
 - B. Line up the 3-holes around the fitting with the bracket behind the fitting and install the screws. Refer to Fig. 11.
- 3. To install the liquid line fitting into the coil access panel:
 - A. Slip the metal bushing onto the fitting.
 - B. Install the fitting into the liquid line hole.
 - C. Line up the 3 holes around the fitting with the bushing and bracket behind the fitting and install the screws. Refer to Fig. 12.





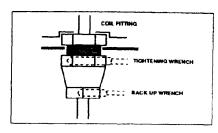


Figure 11

Figure 12

Q MODELS COMPRESSION FITTING CONNECTIONS

- 1. Remove dust caps and plugs.
- If necessary, carefully wipe coupling seals and threaded surfaces with a clean cloth to prevent the inclusion of dirt or any foreign materials in the system.
- Lubricate male half diaphragm and synthetic rubber seal with refrigeration oil. Thread coupling halves together by hand to insure proper mating of threads;
- 4. It is imperative that the properly located backup wrenches be used when tightening these couplings. Failure to do so will cause internal restrictions and leaky fittings. Hold backup as shown below for coil fittings. Use proper size wrenches (on coupling body hex and on union nut) and tighten until coupling bodies "bottom" or a definite resistance is felt.
- 5. Using a marker or ink pen, mark a line lengthwise from the coupling union nut to the bulk head. Then tighten an additional 1/4 turn to insure the formation of a leakproof joint. If a torque wrench is used, the following torque values are recommended:

COUPLING SIZE	FT. LBS.
-6	10-12
-10	35-45
-11	35-45
-12	50-65

Due to constant improvement, all specifications are subject to change without notice.

10 Seer Condensing Unit/Coil Flowrator Usage

	Normal	Required Flowrater (see note 1)			Matching				
Condenser Model	Capacity (Tons)		Full Cased	Width	Part Number	Uncased	Width	Part Number	Oil Furnace Casing
C1018-1	1 1/2	0.053	E1802A53SR1308 No Change Necessary	14 1/2	29290	E1802A53SR13 No Change Necessary	13	29280	N/A
						E2408A59SR13 Requires Change to .053	13 Flowrator	29285	N/A
C1024-1	2	0.059	E3009A63SR1308 Requires Change To .059	14 1/2 Flowrator	29291	E2408A59SR13 No Change Necessary	13	29285	N/A
		:	E3009A63SR1630 Requires Change To .059	17 1/2 Flowrator	29293	E3009A63SR13 Requires Change to .059	Flowrator	29281	N/A
						E3009A63SR20 Requires Change to .059	20 Flowrator	29275	29340
C1030-1	2 1/2	0.063	E3009A63SRI308 No Change Necessary	14 1/2	29291	E3009A63SR13 No Change Necessary	13	29281	N/A
			E3009A63SR1630 No Change Necessary	17 1/2	29293	E3009A63SR15 No Change Necessary	15	29282	N/A
			E3612A70SR1310 Requires Change To .063	14 1/2 Flowrator	29292	E3009A63SR20 No Change Necessary	20	29275	29340
			E3612A70SR1632 Requires Change To .063	17 1/2 Flowrator	29294	E3612A70SR16 Requires Change to .063	16 Flowrator	29283	N/A
			E3612A70SR2057 Requires Change To .063		29296	E3612A70SR20 Requires Change to .063	20 Flowrator	29276	N/A
			E3612A70SR2375 Requires Change To .063	24 1/2 Flowrator	29299				
C1036-1	3	0.07	E3612A7OSR1310 No Change Necessary	14 1/2	29292	E3612A7OSR16 No Change Necessary	16	29343	N/A
			E3612A70SR1632 No Change Necessary	17 1/2	29294	E3612A70SR20 No Change Necessary	20	29276	29341
			E3612A7OSR2O57 No Change Necessary	21	29296				
			E3612A70SR2375 No Change Necessary	24 1/2	29299				
C1042-1	3 1/2	0.078	E4814A84SR1632 Requires Change To .078	17 1/2 Flowrator	29295	E4814A84SR18 Requires Change to .078	18 Flowrator	29284	N/A
			E4814A84SR2059 Requires Change To .078	21 Flowrator	29297	E4814A84SR20 Requires Change to .078	20 Flowrator	29277	29341
"C1048-1, 3"	4	0.084	E4814A84SR1632 No Change Necessary	17 1/2	29295	E4814A84SR18 No Change Necessary	18	29284	N/A
			E4814A84SR2059 No Change Necessary	21	29297	E4814ASR20 No Change Necessary	20	29277	29341
			E6026A94SR2059 Requires Change To .084	21 Flowrator	29298	E6026A94SR20 Requires Change to .084	20 Flowrator	29278	29341
			E6016A94SR2375 Requires Change To .084	24 1/2 Flowrator	29300				
"C1060-1, 3"	5	0.094	E6026A94SR2059 No Change Necessary	21	29298	E6026A94SR20 No Change Necessary	20	29278	29341
			E6016A94SR2375 No Change Necessary	24 1/2	29300	E6016A94SR23 No Change Necessary	23	29287	N/A

Key to Reference Numbers



Flowrator Piston Size

NOTES:

#1 Correct Flowrator is supplied with all condensing units - located in instruction packet
#2 Coils are supplied with Flowrator for their rated capacity with a 10 Seer condenser - Example: E36 coil has a nominal 3 ton, 10 Seer Flowrator.