

### EXPANSION VALVE COILS

- 1–1/2 thru 5 Tons
- Tin plated copper tube / aluminum fin “A” coil with latest high–tech fin design
- Bolt–on TXV metering device factory installed on all models (equalizer tube brazed in)
- TXV and manifold positioned to the side for easier cleaning
- Innovative drain pan design for complete water removal
- Two condensate drain connections (Additional two for horizontal installation)
- 2–piece delta plate for easier removal and cleaning
- Cabinet widths match flush with ICP gas furnaces
- Removable front access panel
- Easy slide–out coil for inspection
- Hemmed flanges for safer handling
- Foil faced insulation
- Non–sweat cabinet, even at extreme conditions
- Cabinets meet or exceed 2% air leakage codes
- Sturdy, 22 gauge, pre–painted steel cabinet
- Multiposition installation – upflow, downflow, or horizontal
- Available for R–410A
- One or two UV light knock–outs provided on cabinet (depending on size)
- Industry exclusive tin coated copper main tubing for additional corrosion protection



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to [www.ahridirectory.org](http://www.ahridirectory.org).



#### WARRANTY\*

- 5 year parts limited warranty
  - With timely registration, an additional 5 year parts limited warranty

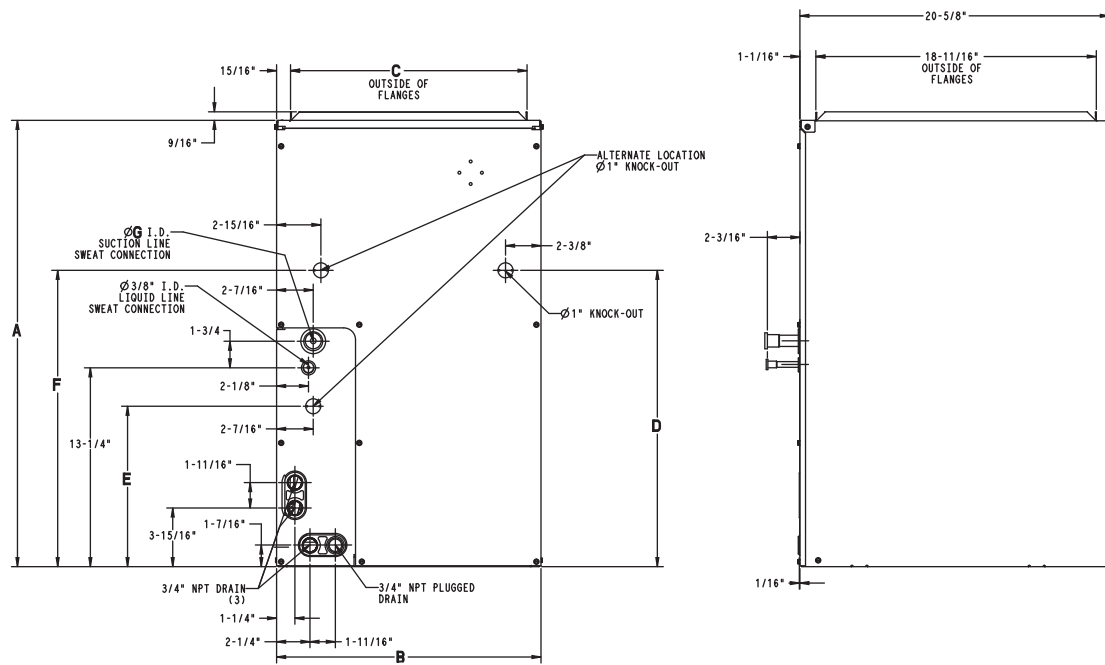
\* Applies to original purchaser/homeowner, some limitations may apply. See Warranty certificate for complete details.

#### PRODUCT SPECIFICATONS

MODEL NUMBER	TONS	FLUSH FIT TO FURNACE WIDTH inches (mm)	COIL CONNECTION TUBE SIZE inches (mm)	
			Liquid	Suction
EAM4X18T14A	1–1/2	14–3/16 (360)	3/8	5/8
EAM4X24T14A	2	14–3/16 (360)	3/8	5/8
EAM4X24T17A	2	17–1/2 (445)	3/8	5/8
EAM4X30T14A	2–1/2	14–3/16 (360)	3/8	3/4
EAM4X30T17A	2–1/2	17–1/2 (445)	3/8	3/4
EAM4X36T14A	3	14–3/16 (360)	3/8	3/4
EAM4X36T17A	3	17–1/2 (445)	3/8	3/4
EAM4X36T21A	3	21 (533)	3/8	3/4
EAM4X42T21A	3–1/2	21 (533)	3/8	7/8
EAM4X42T24A	3–1/2	24–1/2 (622)	3/8	7/8
EAM4X48T17A	4	17–1/2 (445)	3/8	7/8
EAM4X48T21A	4	21 (533)	3/8	7/8
EAM4X48T24A	4	24–1/2 (622)	3/8	7/8
EAM4X60T21A	5	21 (533)	3/8	7/8
EAM4X60T24A	5	24–1/2 (622)	3/8	7/8

Specifications subject to change without notice.

COIL MODEL NUMBER IDENTIFICATION GUIDE										
DIGIT POSITION	1	2	3	4	5	6, 7	8	9, 10	11	12
	<b>E</b>	<b>A</b>	<b>M</b>	<b>4</b>	<b>X</b>	<b>18</b>	<b>T</b>	<b>14</b>	<b>A</b>	<b>1</b>
E = Evaporator										
A = A Coil		<b>TYPE</b>								
M = Cased, Multiposition (Upflow/Downflow/Horizontal)			<b>INSTALLATION</b>							
4 = Environmentally Sound R-410A			<b>REFRIGERANT</b>							
X = TXV			<b>METERING DEVICE</b>							
18 = 18,000 BTUH = 1-1/2 tons 24 = 24,000 BTUH = 2 tons 30 = 30,000 BTUH = 2-1/2 tons 36 = 36,000 BTUH = 3 tons 42 = 42,000 BTUH = 3-1/2 tons 48 = 48,000 BTUH = 4 tons 60 = 60,000 BTUH = 5 tons										
						<b>NOMINAL CAPACITY</b>				
T = Tin Coated Copper Tubes for Additional Corrosion Protection						<b>HAIRPIN MATERIAL</b>				
14 = 14-3/16" 17 = 17-1/2" 21 = 21" 24 = 24-1/2"										
						<b>WIDTH (matches furnace)</b>				
Sales Digit (Major Revision)										
Engineering Digit (Minor Revision)										



**DIMENSIONAL DATA**

UNIT	A (IN.)	B (IN.)	C (IN.)	D (IN.)	E (IN.)	F (IN.)	G (IN.)	SHIPPING WT. (LBS.)
								Tin-Coated Hairpins (T)
EAM4X18T14A1	25-13/16	14-3/16	12-7/16	17-3/16	10-11/16	-	5/8	50.5
EAM4X24T14A1	25-13/16	14-3/16	12-7/16	17-3/16	10-11/16	-	5/8	52.5
EAM4X24T17A1	25-13/16	17-1/2	15-3/4	10-11/16	10-11/16	-	5/8	56.5
EAM4X30T14A1	25-13/16	14-3/16	12-7/16	17-3/16	-	19-3/4	3/4	58.0
EAM4X30T17A1	25-13/16	17-1/2	15-3/4	17-3/16	-	19-3/4	3/4	64.5
EAM4X36T14A1	29-3/4	14-3/16	12-7/16	19-3/4	-	19-3/4	3/4	65.0
EAM4X36T17A1	29-3/4	17-1/2	15-3/4	19-3/4	-	19-3/4	3/4	71.0
EAM4X36T21A1	29-3/4	21	19-1/4	19-3/4	-	19-3/4	3/4	73.0
EAM4X42T21A1	29-3/4	21	19-1/4	19-3/4	-	19-3/4	7/8	78.0
EAM4X42T24A1	29-3/4	24-1/2	22-3/4	19-3/4	-	19-3/4	7/8	82.0
EAM4X48T17A1	35	17-1/2	15-3/4	19-3/4	-	19-3/4	7/8	91.0
EAM4X48T21A1	29-3/4	21	19-1/4	19-3/4	-	19-3/4	7/8	84.0
EAM4X48T24A1	29-3/4	24-1/2	22-3/4	19-3/4	-	19-3/4	7/8	88.5
EAM4X60T21A1	35	21	19-1/4	19-3/4	-	19-3/4	7/8	96.0
EAM4X60T24A1	35	24-1/2	22-3/4	19-3/4	-	19-3/4	7/8	101.0



**Legend:**

**CFM** – Cubic Ft. per Minute      **EWB** – Entering Wet Bulb (°F)      **LWB** – Leaving Wet Bulb (°F)      **TC** – Gross Cooling Capacity 1000 Btuh  
**SHC** – Gross Sensible Capacity 1000 Btuh      **BF** – Bypass Factor      **MBH** – 1000 Btuh

**NOTES:**

1. Contact manufacturer for cooling capacities at conditions other than shown in table.
2. Formulas:  

$$\text{Leaving db} = \text{entering db} - \frac{\text{sensible heat cap.}}{1.09 \times \text{CFM}}$$

$$\text{Leaving wb} = \text{wb corresponding to enthalpy of air leaving coil (h}_{LWB})$$

$$h_{LWB} = h_{EWB} - \frac{\text{total capacity (Btuh)}}{4.5 \times \text{CFM}}$$
 Where  $h_{EWB}$  = enthalpy of air entering coil
3. SHC is based on 80°F db temperature of air entering the evaporator coil.  
 Below 80°F db, subtract (Correction Factor x CFM) from SHC.  
 Above 80°F db, add (Correction Factor x CFM) to SHC.
4. Direct interpolation is permissible. Do not extrapolate.
5. Fan motor heat has not been deducted.
6. All data points are based on 10°F superheat leaving coil and use of thermostatic expansion valve (TXV) device.
7. All units have sweat suction–tube connection and a liquid–tube connection. For 1–1/8 in. system suction tube, 3/4 x 1–1/8 in. suction tube connection adapter is available as accessory.
8. The EAM4X coils can be used in any properly designed system using Refrigerant R–410A.
9. Before using maximum cfm shown in table, check coil static pressure drop to ensure system blower can provide necessary static pressure needed for coil and duct systems.
10. Bypass Factor = 0 indicates no psychometric solution. Use bypass factor of next lower EWB for approximation.

BYPASS FACTOR	ENTERING AIR DRY BULB TEMPERATURE (°F)					
	79	78	77	76	75	Under 75
	81	82	83	84	84	Above 85
	<b>Correction Factor</b>					
0.10	0.98	1.96	2.94	3.92	4.91	Use formula shown below
0.20	0.87	1.74	2.62	3.49	4.36	
0.30	0.76	1.53	2.29	3.05	3.82	

Interpolation is permissible.

$$\text{Correction Factor} = 1.09 \times (1 - \text{BF}) \times (\text{db} - 80)$$

**PERFORMANCE DATA (CONT.)**

**COIL STATIC PRESSURE DROP (in. w.c.) R-410A**

UNIT SIZE	STANDARD CFM																										
	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200								
18T14	Dry																										
	0.079	0.111	0.145	0.186	0.232																						
	Wet																										
24T14	0.083	0.116	0.151	0.196	0.243																						
	Dry																										
	0.065	0.091	0.120	0.154	0.194	0.237	0.284																				
24T17	Wet																										
	0.066	0.094	0.124	0.161	0.203	0.250	0.301																				
	Dry																										
30T14	0.056	0.076	0.097	0.123	0.151	0.182	0.215																				
	Wet																										
	0.060	0.082	0.105	0.132	0.163	0.195	0.231																				
30T17	Dry																										
	0.054	0.077	0.102	0.133	0.167	0.206	0.248	0.296	0.347																		
	Wet																										
36T14	0.059	0.084	0.111	0.142	0.181	0.223	0.269	0.319	0.375																		
	Dry																										
	0.043	0.059	0.077	0.096	0.119	0.144	0.171	0.201	0.232																		
36T17	Wet																										
	0.046	0.063	0.083	0.105	0.130	0.157	0.186	0.219	0.252																		
	Dry																										
36T21	0.047	0.069	0.093	0.119	0.151	0.187	0.227	0.270	0.317	0.362	0.418																
	Wet																										
	0.053	0.076	0.101	0.129	0.162	0.200	0.241	0.286	0.335	0.388	0.447																
42T21	Dry																										
	0.023	0.036	0.052	0.069	0.089	0.110	0.135	0.160	0.189	0.219	0.251																
	Wet																										
42T24	0.042	0.058	0.076	0.095	0.117	0.142	0.169	0.198	0.231	0.265	0.299																
	Dry																										
	0.026	0.037	0.050	0.062	0.077	0.092	0.109	0.128	0.148	0.170	0.193																
48T17	Wet																										
	0.029	0.040	0.053	0.065	0.082	0.099	0.119	0.138	0.160	0.185	0.209																
	Dry																										
48T21			0.044	0.056	0.068	0.082	0.099	0.119	0.138	0.161	0.183	0.205	0.233														
	Wet																										
			0.058	0.073	0.089	0.106	0.125	0.143	0.165	0.189	0.213	0.239	0.268														
48T24	Dry																										
			0.039	0.049	0.060	0.072	0.085	0.099	0.114	0.130	0.146	0.164	0.182														
	Wet																										
60T21			0.054	0.066	0.079	0.092	0.103	0.125	0.142	0.161	0.182	0.202	0.222														
	Dry																										
			0.065	0.082	0.105	0.128	0.156	0.185	0.216	0.253	0.290	0.331	0.372	0.417	0.464												
60T24	Wet																										
			0.066	0.084	0.106	0.130	0.159	0.188	0.222	0.256	0.296	0.337	0.379	0.425	0.476												
	Dry																										
60T24			0.055	0.072	0.089	0.107	0.128	0.150	0.175	0.199	0.228	0.257	0.288	0.321	0.356												
	Wet																										
			0.058	0.075	0.094	0.115	0.136	0.161	0.188	0.217	0.247	0.279	0.313	0.347	0.386												
60T24	Dry																										
			0.044	0.056	0.069	0.084	0.100	0.118	0.137	0.159	0.180	0.198	0.222	0.247	0.275												
	Wet																										
60T24			0.052	0.065	0.080	0.095	0.112	0.131	0.150	0.171	0.193	0.214	0.241	0.270	0.296												
	Dry																										
					0.075	0.093	0.112	0.133	0.157	0.181	0.206	0.234	0.264	0.294	0.326	0.360	0.396	0.432	0.478								
60T24	Wet																										
					0.077	0.095	0.115	0.137	0.159	0.184	0.209	0.238	0.268	0.300	0.334	0.370	0.407	0.444	0.488								
	Dry																										
60T24					0.073	0.083	0.095	0.107	0.120	0.136	0.152	0.169	0.184	0.203	0.217	0.238	0.260	0.283	0.307								
	Wet																										
					0.076	0.086	0.098	0.110	0.124	0.140	0.157	0.175	0.193	0.215	0.238	0.261	0.286	0.314	0.342								