

# EMA Product Specifications

## COILS for MANUFACTURED HOUSING R-22 or ENVIRONMENTALLY SOUND R-410A SYSTEMS

### 2, 3, and 4 TONS

#### FEATURES

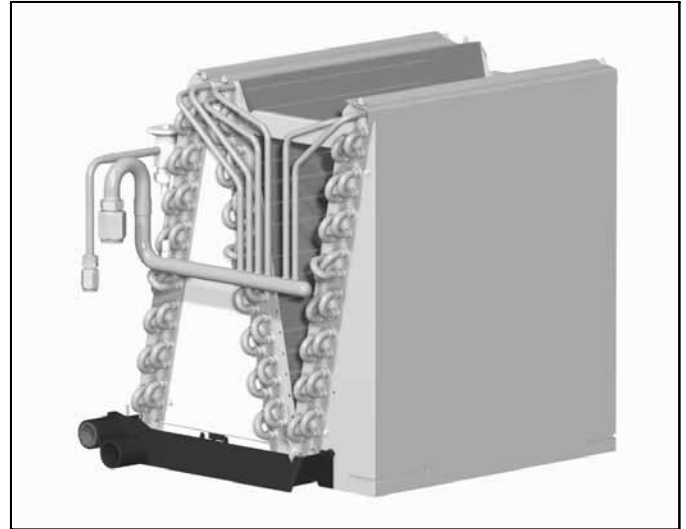
- Upflow or Downflow installation
- Bolt-on TXV metering device factory installed on all models (equalizer tube brazed in)
- Copper tube / aluminum fin coil with latest high tech fin design
- Two condensate drain connections
- “N” evaporator design to keep height at a minimum
- Shipped with condensate drain hose and trap
- Shipped with fittings and adapter plates

#### AVAILABLE WITH TIN COATED COPPER TUBING

- Model numbers ending in “AT” have industry exclusive tin coated copper main tubing for additional corrosion protection

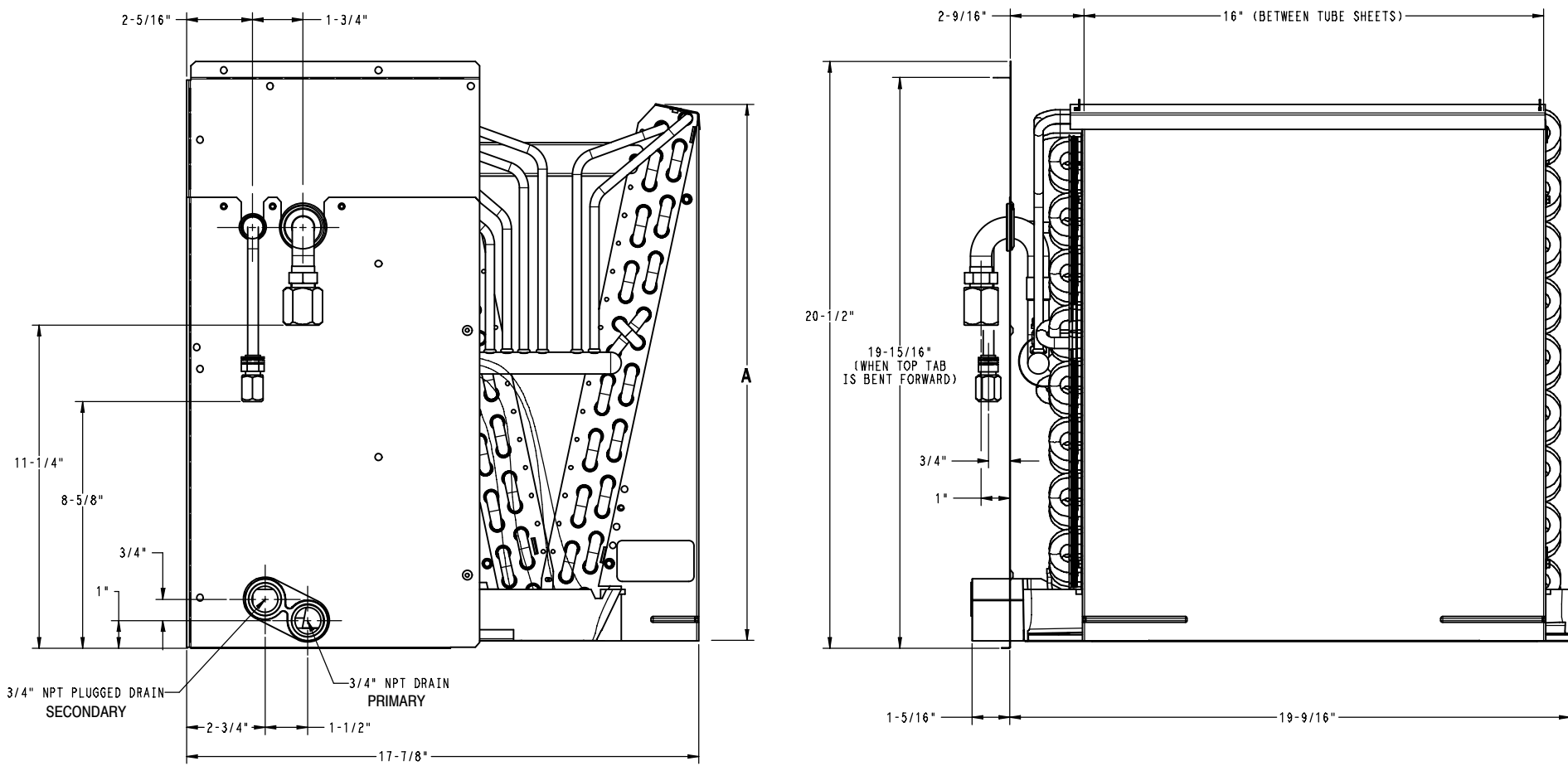
#### WARRANTY

- 10 year limited coil warranty (“AT” tin coated models)
- 5 year limited coil warranty (standard models)
- 5 year limited parts warranty



Rated in accordance with ARI Standard 210 and/or 240. Certification applies only when used with proper components as listed with ARI.

	Model	Size (tons)	Dimensions H x W x D (in)
R-410A	EMA4X24DA	2	12 <sup>5</sup> / <sub>8</sub> x 17 <sup>7</sup> / <sub>8</sub> x 19 <sup>9</sup> / <sub>16</sub>
	24DAT		Tin Coated Copper
	EMA4X36DA	3	14 <sup>1</sup> / <sub>16</sub> x 17 <sup>7</sup> / <sub>8</sub> x 19 <sup>9</sup> / <sub>16</sub>
	36DAT		Tin Coated Copper
	EMA4X48DA	4	18 <sup>3</sup> / <sub>4</sub> x 17 <sup>7</sup> / <sub>8</sub> x 19 <sup>9</sup> / <sub>16</sub>
	48DAT		Tin Coated Copper
R-22	EMA2X24DA	2	12 <sup>5</sup> / <sub>8</sub> x 17 <sup>7</sup> / <sub>8</sub> x 19 <sup>9</sup> / <sub>16</sub>
	24DAT		Tin Coated Copper
	EMA2X36DA	3	14 <sup>1</sup> / <sub>16</sub> x 17 <sup>7</sup> / <sub>8</sub> x 19 <sup>9</sup> / <sub>16</sub>
	36DAT		Tin Coated Copper
	EMA2X48DA	4	18 <sup>3</sup> / <sub>4</sub> x 17 <sup>7</sup> / <sub>8</sub> x 19 <sup>9</sup> / <sub>16</sub>
	48DAT		Tin Coated Copper



Model Size	A	Suction Tube Connection Size	Liquid Tube Connection Size
24	12 <sup>5</sup> / <sub>8</sub> "	5/8"	3/8"
36	14 <sup>11</sup> / <sub>16</sub> "	3/4"	3/8"
48	18 <sup>3</sup> / <sub>4</sub> "	3/4"	3/8"

PHYSICAL DATA			
	Model Size		
	24	36	48
<b>TXV factory installed, hard shut-off, bi-flow type for heat pump application, non-adjustable superheat</b>			
R-22 TXV Size	3 ton		5 ton
R-410A TXV Size	2 ton	3 ton	5 ton
TXV Connections	TXV-to-coil = Bolt-on 3/4-20 UNF straight thread (factory assembled)		
	field line set to TXV = 3/8" mechanical coupling		
	equalizer-to-coil = brazed in (factory brazed)		
<b>Nominal Acceptable CFM Range (minimum 350 CFM/ton, maximum 450 CFM/ton)</b>			
CFM - min	700	1050	1400
CFM - max	900	1350	1600 (excessive pressure drop above 1600)
<b>Coil Data (all coils 3 slab "N" configuration, lanced sine wave bare aluminum fin)</b>			
Face Area (ft <sup>2</sup> )	4.0	4.7	6.0
Each Slab H x W (in)	12 x 16	14 x 16	18 x 16
Fins Per Inch	16	16	16
<b>Refrigerant Line Connections (mechanical coupling)</b>			
Liquid (inch)	3/8	3/8	3/8
Suction (inch)	5/8	3/4	3/4

ACCESSORIES	
Description	Part Number
Fossil Fuel Kit	AXWR01DFB
PVC Condensate Trap Kit (box of 50)	EBAC01CTK

STATIC PRESSURE DROP ACROSS COIL AT A GIVEN CFM			
Coil Size	CFM Across Coil	Static Pressure Drop Across Coil (Inches Water Column)	
		Dry	Wet
24 2 tons	700	0.182	0.214
	800	0.233	0.269
	900	0.290	0.336
36 3 tons	1000	0.189	0.236
	1100	0.221	0.276
	1200	0.259	0.315
	1300	0.299	0.361
	1400	0.341	0.413
48 4 tons	1400	0.322	0.348
	1500	0.366	0.396
	1600	0.413	0.446
	1700	*	*
	1800	*	*

\* Excessive pressure drop, application not recommended.

COIL MODEL NUMBER IDENTIFICATION GUIDE									
	<b>E</b>	<b>M</b>	<b>A</b>	<b>2</b>	<b>X</b>	<b>24</b>	<b>D</b>	<b>A</b>	<b>1</b>
E = Evaporator		<b>TYPE</b>							
M = Manufactured Home		<b>APPLICATION</b>							
A = Loose		<b>REFRIGERANT</b>							
2 = R-22		<b>METERING DEVICE</b>							
4 = Environmentally Sound R-410A		<b>NOMINAL CAPACITY</b>							
X = TXV		<b>WIDTH</b>							
24 = 24,000 BTUH = 2 tons									
36 = 36,000 BTUH = 3 tons									
48 = 48,000 BTUH = 4 tons									
D = 17.9"									
A = Standard									
AT = Tin Coated Copper Tubes for Additional Corrosion Protection								<b>SALES CODE / FEATURES</b>	
Engineering Revision									