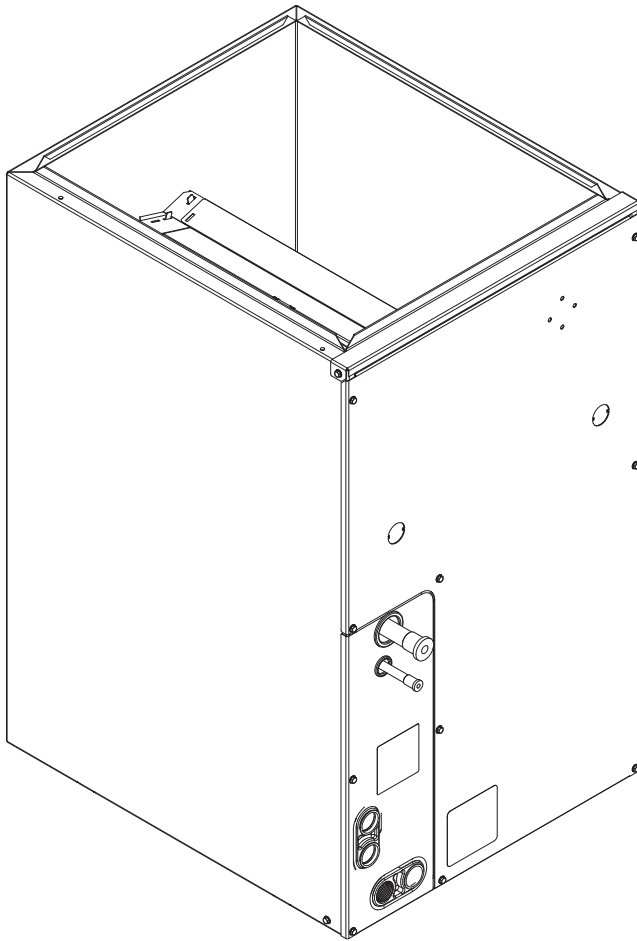


## Product Data



CAPMP

A06009

The CAPMP evaporator coil incorporates proven standards for reliable system operation and performance throughout the life of a quality Bryant Air Conditioner or Heat Pump system. Evaporator coils manufactured by Bryant and installed as part of a total comfort system provide AHRI-rated performance ratings and are additionally listed with UL and c-UL.

This coil is available for use in Puron<sup>®</sup> Refrigerant (R-410A) only. It is a cased A-coil that is housed in a durable, 24 gauge, pre-painted taupe metallic cabinet. The fully-insulated cabinet (foil faced with R-2.1 insulation properties) provides for quiet efficient operation of the evaporator coil. This multipoise coil offers the most in installation application flexibility, one coil for a variety of applications with fewer SKUs to stock.

### DESIGN FEATURES

**Performance** — Designed with performance in mind, this new A-coil offers low pressure drops to enhance system performance and airflow characteristics.

**Thermostatic Expansion Valves (TXV)** — All Bryant coils have refrigerant-specific, factory-installed TXVs.

**Durable Condensate Pans (2)** — The corrosion-resistant drain pans, one for vertical applications and one for horizontal, are designed in a “fiberglass reinforced thermoset polyester” material (FRTP) that offers unsurpassed pan strength. It is engineered with proper slope in both pans to help ensure water drainage, improved moisture removal, and home comfort.

**Refrigerant Connections** — This coil is provided with industry proven sweat connections for leak-free operation to maintain system reliability. The side mounting tubing to the coil slabs allows for easy cleaning/servicing of the coils, as well as easy access to the TXV.

**Burst Pressure** — This coil meets or exceeds burst pressure of 2100 psi, which is at least three to five times the pressure it will see in actual application.

**UV Knockouts** — The cased coil also comes with factory-installed UV knockouts for quick and easy installation of UV lights.

**Serviceability** — This coil comes with a “split delta plate” for easy, quick access to the coil for service and cleaning. Also, after the door is removed, the coil is removable from the front of the unit without use of any tools.

# MODEL NUMBER NOMENCLATURE

1 2 3 4 5 6 7 8 9 10 11 12  
 C A P M P 3 6 1 4 A L A

**Product**  
 C = Coil

**Type**  
 A = A Coil

**Refrigerant Type**  
 P = Puron® Refrigerant (R-410A) TXV

**Coil Configuration**  
 M = Multipoise

**Cabinet Finish**  
 P = Painted

**Variations**  
 A = Basic

**Tubing Design**  
 L = Aluminum

**Revision Level**  
 A = 1st

**Cabinet Width**  
 14 = 14-in (356 mm)  
 17 = 17-in (432 mm)  
 21 = 21-in (536 mm)  
 24 = 24-in (610 mm)

**Unit Capacity**  
 19 = 1 1/2 Ton  
 24 = 2 Ton  
 25 = 2 Ton  
 30 = 2-1/2 Ton  
 36 = 3 Ton  
 37 = 3 Ton  
 42 = 3-1/2 Ton  
 43 = 3-1/2 Ton  
 48 = 4 Ton  
 60 = 5 Ton  
 61 = 5 Ton

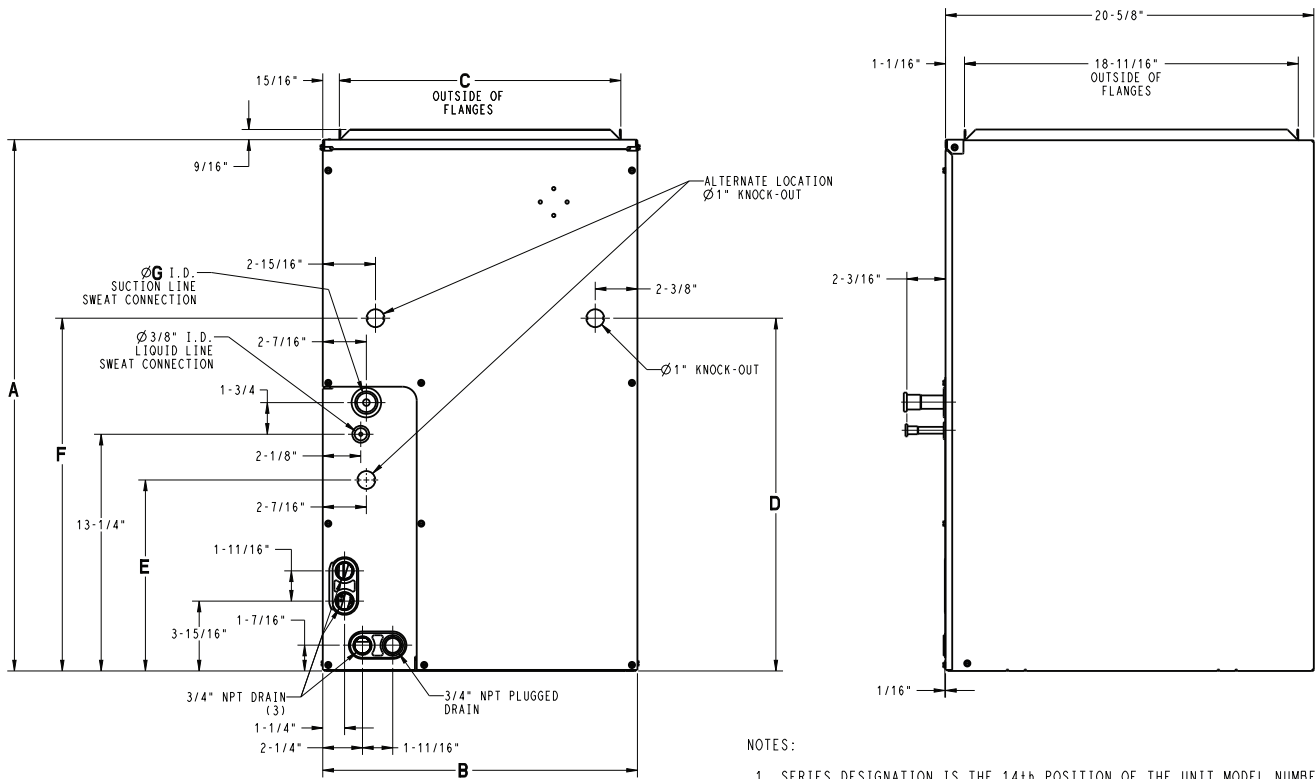


Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to [www.ahridirectory.org](http://www.ahridirectory.org).

ISO 9001:2000



# DIMENSIONS



- NOTES:
- SERIES DESIGNATION IS THE 14th POSITION OF THE UNIT MODEL NUMBER.
  - ALL DIMENSIONS ARE IN "INCHES" UNLESS NOTED.

UNIT	SERIES	A	B	C	D	E	F	G	SHIPPING WT (LBS)
CAPMP1814ALA	A	25 13 <sup>1</sup> / <sub>16</sub> "	14 3 <sup>1</sup> / <sub>16</sub> "	12 7 <sup>1</sup> / <sub>16</sub> "	17 3 <sup>1</sup> / <sub>16</sub> "	10 11 <sup>1</sup> / <sub>16</sub> "	—	5 <sup>1</sup> / <sub>8</sub> "	50.5
CAPMP2414ALA	A	25 13 <sup>1</sup> / <sub>16</sub> "	14 3 <sup>1</sup> / <sub>16</sub> "	12 7 <sup>1</sup> / <sub>16</sub> "	17 3 <sup>1</sup> / <sub>16</sub> "	10 11 <sup>1</sup> / <sub>16</sub> "	—	5 <sup>1</sup> / <sub>8</sub> "	52.5
CAPMP2417ALA	A	25 13 <sup>1</sup> / <sub>16</sub> "	17 1 <sup>1</sup> / <sub>2</sub> "	15 3 <sup>1</sup> / <sub>4</sub> "	10 11 <sup>1</sup> / <sub>16</sub> "	10 11 <sup>1</sup> / <sub>16</sub> "	—	5 <sup>1</sup> / <sub>8</sub> "	56.6
CAPMP3014ALA	A	25 13 <sup>1</sup> / <sub>16</sub> "	14 3 <sup>1</sup> / <sub>16</sub> "	12 7 <sup>1</sup> / <sub>16</sub> "	17 3 <sup>1</sup> / <sub>16</sub> "	—	19 3 <sup>1</sup> / <sub>4</sub> "	3 <sup>1</sup> / <sub>4</sub> "	58.0
CAPMP3017ALA	A	25 13 <sup>1</sup> / <sub>16</sub> "	17 1 <sup>1</sup> / <sub>2</sub> "	15 3 <sup>1</sup> / <sub>4</sub> "	17 3 <sup>1</sup> / <sub>16</sub> "	—	19 3 <sup>1</sup> / <sub>4</sub> "	3 <sup>1</sup> / <sub>4</sub> "	64.5
CAPMP3614ALA	A	29 3 <sup>1</sup> / <sub>4</sub> "	14 3 <sup>1</sup> / <sub>16</sub> "	12 7 <sup>1</sup> / <sub>16</sub> "	19 3 <sup>1</sup> / <sub>4</sub> "	—	19 3 <sup>1</sup> / <sub>4</sub> "	3 <sup>1</sup> / <sub>4</sub> "	65.0
CAPMP3617ALA	A	29 3 <sup>1</sup> / <sub>4</sub> "	17 1 <sup>1</sup> / <sub>2</sub> "	15 3 <sup>1</sup> / <sub>4</sub> "	19 3 <sup>1</sup> / <sub>4</sub> "	—	19 3 <sup>1</sup> / <sub>4</sub> "	3 <sup>1</sup> / <sub>4</sub> "	71.0
CAPMP4221ALA	A	29 3 <sup>1</sup> / <sub>4</sub> "	21"	19 1 <sup>1</sup> / <sub>4</sub> "	19 3 <sup>1</sup> / <sub>4</sub> "	—	19 3 <sup>1</sup> / <sub>4</sub> "	7 <sup>1</sup> / <sub>8</sub> "	78.0
CAPMP4821ALA	A	29 3 <sup>1</sup> / <sub>4</sub> "	21"	19 1 <sup>1</sup> / <sub>4</sub> "	19 3 <sup>1</sup> / <sub>4</sub> "	—	19 3 <sup>1</sup> / <sub>4</sub> "	7 <sup>1</sup> / <sub>8</sub> "	84.0
CAPMP6021ALA	A	35"	21"	19 1 <sup>1</sup> / <sub>4</sub> "	19 3 <sup>1</sup> / <sub>4</sub> "	—	19 3 <sup>1</sup> / <sub>4</sub> "	7 <sup>1</sup> / <sub>8</sub> "	96.0
CAPMP6121ALA	A	35"	21"	19 1 <sup>1</sup> / <sub>4</sub> "	19 3 <sup>1</sup> / <sub>4</sub> "	—	19 3 <sup>1</sup> / <sub>4</sub> "	7 <sup>1</sup> / <sub>8</sub> "	98.0
CAPMP6024ALA	A	35"	24 1 <sup>1</sup> / <sub>2</sub> "	22 3 <sup>1</sup> / <sub>4</sub> "	19 3 <sup>1</sup> / <sub>4</sub> "	—	19 3 <sup>1</sup> / <sub>4</sub> "	7 <sup>1</sup> / <sub>8</sub> "	101.0

A180052





**COIL STATIC PRESSURE DROP (in. w.c.) PURON® (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			
1814	Dry																					
	0.079	0.111	0.145	0.186	0.232																	
	Wet																					
1917	0.083	0.116	0.151	0.196	0.243																	
	Dry																					
	0.077	0.099	0.124	0.152	0.182																	
2414	Wet																					
	0.088	0.113	0.137	0.170	0.209																	
	Dry																					
2417	0.065	0.091	0.120	0.154	0.194	0.237	0.284															
	Wet																					
	0.066	0.094	0.124	0.161	0.203	0.250	0.301															
2517	Dry																					
	0.056	0.076	0.097	0.123	0.151	0.182	0.215															
	Wet																					
2517	0.060	0.082	0.105	0.132	0.163	0.195	0.231															
	Dry																					
	0.069	0.090	0.111	0.136	0.165	0.193	0.227															
3014	Wet																					
	0.071	0.090	0.113	0.136	0.164	0.196	0.229															
	Dry																					
3014	0.054	0.077	0.102	0.133	0.167	0.206	0.248	0.296	0.347													
	Wet																					
	0.059	0.084	0.111	0.142	0.181	0.223	0.269	0.319	0.375													
3017	Dry																					
	0.043	0.059	0.077	0.096	0.119	0.144	0.171	0.201	0.232													
	Wet																					
3017	0.046	0.063	0.083	0.105	0.130	0.157	0.186	0.219	0.252													
	Dry																					
	0.047	0.069	0.093	0.119	0.151	0.187	0.227	0.270	0.317	0.362	0.418											
3614	Wet																					
	0.053	0.076	0.101	0.129	0.162	0.200	0.241	0.286	0.335	0.388	0.447											
	Dry																					
3617	0.023	0.036	0.052	0.069	0.089	0.110	0.135	0.160	0.189	0.219	0.251											
	Wet																					
	0.042	0.058	0.076	0.095	0.117	0.142	0.169	0.198	0.231	0.265	0.299											
3717	Dry																					
	0.077	0.099	0.124	0.152	0.182	0.216	0.253	0.294	0.338													
	Wet																					
3717	0.088	0.113	0.137	0.170	0.209	0.247	0.287	0.326	0.368													
	Dry																					
			0.059	0.073	0.090	0.111	0.135	0.162	0.191	0.222	0.254											
3721	Wet																					
			0.073	0.096	0.120	0.147	0.176	0.207	0.240	0.276	0.314											
	Dry																					
4221			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									
4321	Dry																					
			0.059	0.073	0.090	0.111	0.135	0.162	0.191	0.222	0.254	0.288	0.323									
	Wet																					
4321			0.073	0.096	0.120	0.147	0.176	0.207	0.240	0.276	0.314	0.354	0.396									
	Dry																					
			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							
4821	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							
	Dry																					
6021					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			
	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			
6024	Dry																					
					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																					
6024					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			
	Dry																					
						0.111	0.133	0.153	0.163	0.204	0.234	0.262	0.293	0.326	0.366	0.392	0.437	0.480	0.520			
6121	Wet																					
						0.130	0.150	0.183	0.210	0.245	0.280	0.320	0.355	0.400	0.435	0.480	0.525	0.570	0.630			
	Dry																					
6124						0.099	0.113	0.127	0.144	0.162	0.182	0.203	0.227	0.252	0.279	0.307	0.337	0.369	0.403			
	Wet																					
							0.118	0.140	0.163	0.187	0.213	0.239	0.266	0.295	0.325	0.355	0.387	0.420	0.454	0.489		

**COOLING CAPACITIES NOTES:**

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

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

Leaving wb = 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

- 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.
- Direct interpolation is permissible. Do not extrapolate.
- Fan motor heat has not been deducted.
- All data points are based on 10°F superheat leaving coil and use of thermostatic expansion valve (TXV) device.
- 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.
- The CAPMP coils can be used in any properly designed system using Puron Refrigerant (R-410A).
- 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.
- 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
Correction Factor						
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.

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

