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Advanced Distributor Products®

US Air Conditioning Distributors

AX Series Air Handlers

Upflow, Horizontal Left/Right, or Downflow

Specification Guide



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Product Features

Cabinet Features

- Two independent front access panels allow for easy access to clean the coil, even after installation.
- Downflow kit available for field installation.
- Only four (4) screws to remove blower panel for easier access.
- Slide-out blower and coil assemblies.
- Cabinet constructed of heavy gauge painted steel for additional corrosion resistance.
- High quality 5/8” foil-faced insulation lines cabinet, with cabinet flanges & retaining rods for better attachment.
- Brackets hold coil assembly in place when installed horizontally.
- Filter rack built into every air handler (filter not included).
- Independent lab tested 2% or less air leakage for better efficiency.

Evaporator Coil Features

- Rifled copper tubing; lanced fin design.
- A1 models suitable for use with R-22 and R-410A.
- A2L models suitable for use with R-32 and R-454B.
- A2L models include factory installed Refrigerant Detections System (RDS).
- TXV Bulbs come standard attached to header assembly.
- Coils are air pressure tested at 500 PSI, leak tested with helium, sealed with rubber plugs, then charged with dry air.
- HYDROTEC™ drain pans hold less water, which reduces the possibility of mold and mildew growing in the pan.
- All drain pans have Microban protection, which inhibits the growth of mold and mildew that cause odors and staining.
- Drain pans are molded of corrosion proof engineered polymer.
- Dual 3/4” FPT condensate drains on left and right sides.

Electrical Features

- Dynamically balanced blowers for quiet, vibration-free operation.
- Fan time delay built into the motor (1 second on, 45 seconds off).
- Line voltage connections can be made on top, right or left side of cabinet.
- Electric heat kits available for field installation.

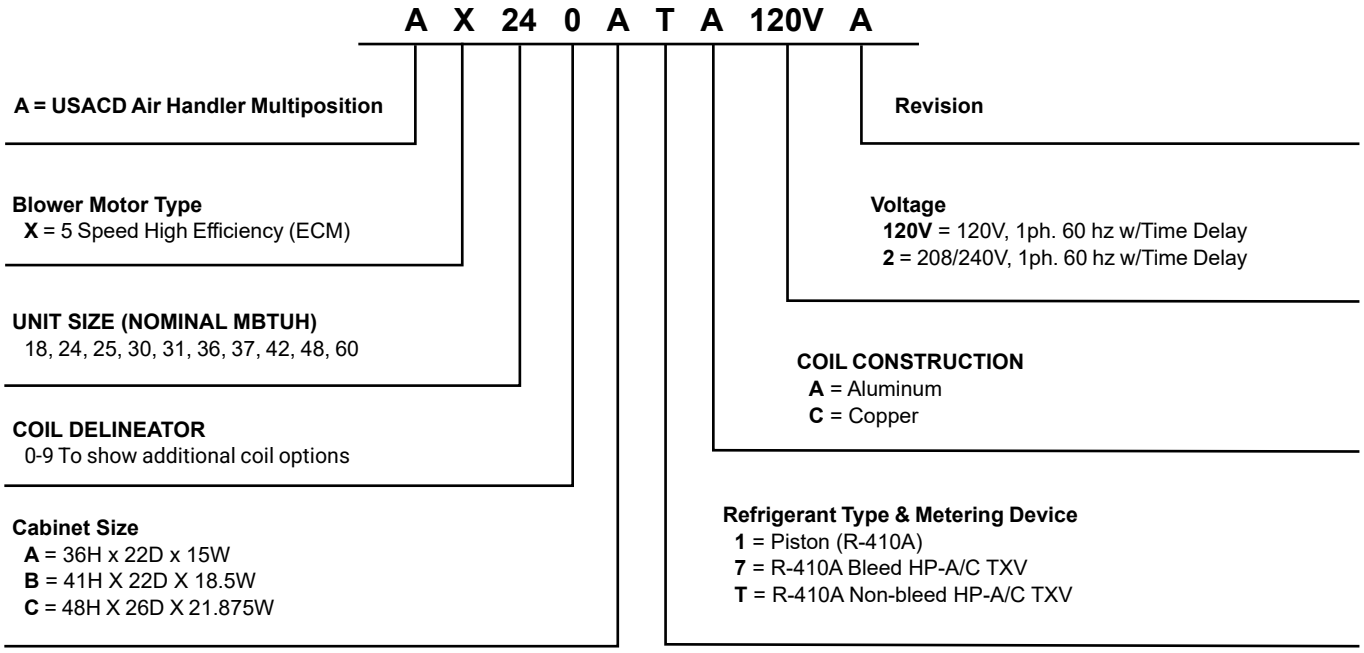
Note: AX Series air handlers feature a standard 5-year limited warranty; a 10-year limited warranty is available with registration.

Physical Data

Model >>>		AX182	AX240	AX241	AX242	AX300	AX360	AX361	AX362	AX480,1	AX482	AX600,1,2
R-410A Metering Device		TXV	TXV	TXV	TXV	TXV	TXV	TXV	TXV	TXV	TXV	TXV
Maximum Electric Heat Available (kW)		10	10	10	10	15	15	15	15	20	20	20
Blower Data: 5-Speed High Efficiency ECM Motor (120 V)	**Motor H. P.**	1/3	1/2	1/3	1/3	1/2	1/2	1/2	1/3	3/4	3/4	3/4
	F. L. A. @ 120 V	3.9	5.8	3.9	3.2	5.8	5.8	5.8	5.3	8.7	10.5	10.5
	Wheel (dia. x width)	9x6	10x8	9x6	9x6	10x8	10x8	10x8	9x6	10x10	10x10	10x10
Blower Data: 5-Speed High Efficiency ECM Motor (240 V)	**Motor H. P.**	1/3	1/2	1/3	1/2	1/2	1/2	1/2	1/2	3/4	1	1
	F. L. A. @ 240 V	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.2	4.6	4.6
	Wheel (dia. x width)	9x6	10 x 8	9 x 6	10 X 8	10 x 8	10 x 8	10 x 8	10 X 8	10 x 10	10 X 10	10 x 10
Nominal CFM		600	800	800	800	1000	1200	1200	1200	1600	2000	2000
Air Filter Size (in)		12x20	16 x 20	12 x 20	16 X 20	18 x 25	18 x 25	16 x 20	18 X 25	18 x 25	18 X 25	18 x 25
Sound Level Min / Max @ 0.3 Static (dBA) [1]		50	45 / 51	45 / 51	45 / 51	47 / 53	47 / 53	47 / 53	47 / 53	53 / 54	53 / 54	53 / 54
Refrigerant Conn. (IDS) Suction, Liquid (in)		3/4, 3/8	7/8, 3/8	3/4, 3/8	7/8, 3/8	7/8, 3/8	7/8, 3/8	7/8, 3/8	7/8, 3/8	7/8, 3/8	7/8, 3/8	7/8, 3/8
Approx. Weight (lbs, base unit w/out heat)		80	105	80	105	155	155	105	155	155	155	155
Available Voltage		120V or 208/240 V, 60 Hz, 1 phase										
Transformer Size and Type		40 VA, Class 2										

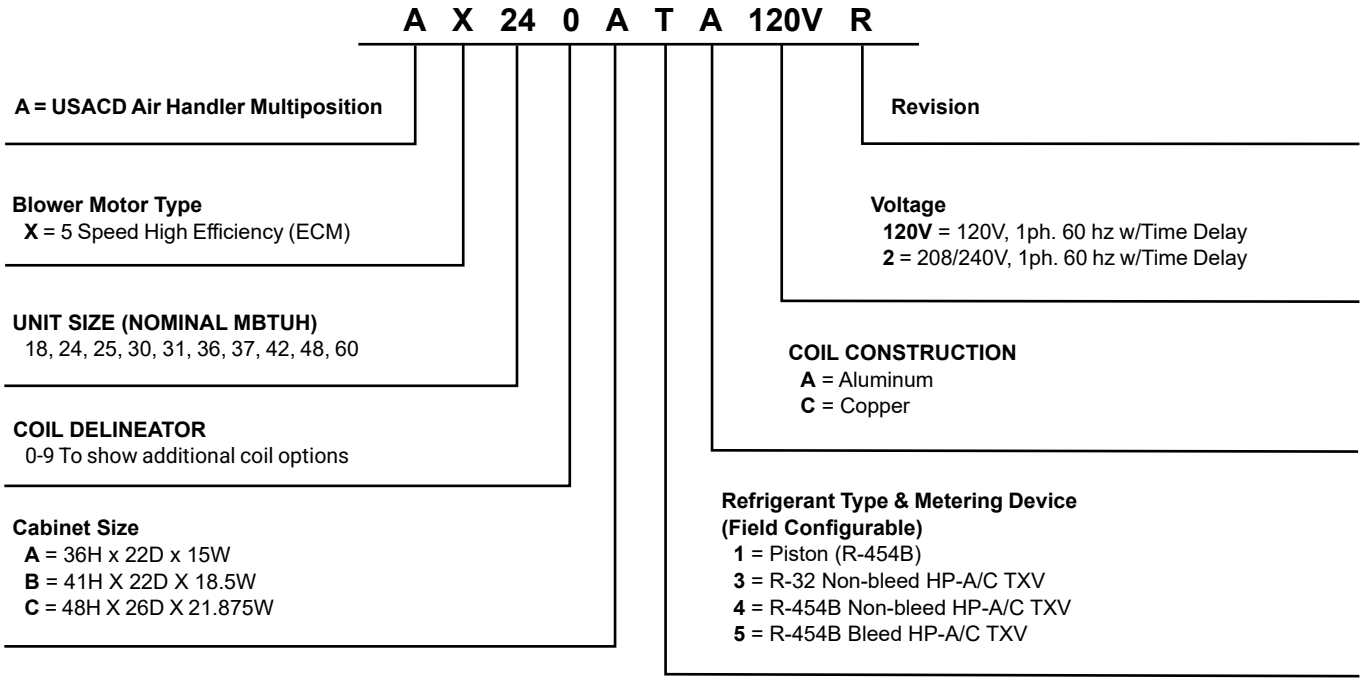
[1] Sound level min/max is based on selectable speed tap settings (see blower performance on page 4).

A1 Refrigerants Model Nomenclature



All units will have Stripped Wire, No kW heat

A2L Refrigerants Model Nomenclature



All units will have Stripped Wire, No kW heat

Downflow kit	
Part Number	**Model**
165873193	AX241
165873194	AX240, AX361
165873195	AX300, AX360, AX420, AX480, AX481, AX600, AX601, AX602

Blower Performance: 240V 5-Speed High Efficiency ECM Motor

- All data is given while air handler is operating with a dry coil and air filter installed.
- Speeds marked ***bold with asterisk** are the factory speed settings for both heating and cooling.
- Heating speeds should not be reduced below factory setting.
- Different speeds can be set for cooling mode; see installation instructions for changing cooling speeds.
- For downflow operation (with field installed kit):
  - If factory-set speed tap 3 is desirable for your application, use speed tap 5 for downflow.
  - If speed tap 2 is desirable for your application, use speed tap 3 in downflow.

Lab Test Data		**Airflow (CFM) vs. External Static Pressure (inches W.C.)**							
Model	**Tap**	**0.1**	**0.2**	**0.3**	**0.35**	**0.4**	**0.45**	**0.5**	**0.6**
AX182A	1	492	448	393	361	361	333	307	273
	2	513	471	420	414	384	357	325	318
	***3**	667	641	615	605	596	577	567	560
	4	705	673	665	648	630	621	603	590
	5	721	689	673	656	639	629	612	590
AX24	1	732	627	590	581	571	545	536	525
	2	671	634	594	578	573	546	493	480
	***3**	892	859	832	828	818	797	790	775
	4	911	866	839	832	825	818	804	760
	5	924	886	846	832	825	818	797	780
AX300C	1	871	830	778	722	671	635	625	586
	2	906	859	809	779	715	689	654	635
	***3**	1085	1070	1048	1036	1024	1001	989	975
	4	1125	1103	1087	1059	1047	1024	1012	983
	5	1176	1146	1114	1098	1081	1059	1047	1029
AX360C AX361C AX362C	1	882	887	826	804	766	760	755	695
	2	1082	1037	1025	1002	990	959	921	881
	***3**	1270	1250	1238	1228	1214	1189	1179	1162
	4	1290	1275	1265	1246	1236	1227	1212	1172
	5	1335	1315	1301	1287	1278	1259	1240	1225
AX480C AX481C	1	1585	1494	1320	1252	1210	1151	1120	1088
	2	1510	1463	1414	1389	1363	1324	1256	1228
	***3**	1675	1633	1579	1556	1545	1510	1487	1451
	4	1737	1697	1655	1633	1612	1590	1568	1545
	5	1781	1731	1679	1658	1637	1615	1593	1571
AX482C AX600C AX601C AX602C	1	1394	1342	1288	1251	1172	1109	1077	1025
	2	1722	1666	1623	1594	1564	1534	1518	1471
	***3**	2083	2048	2013	1990	1972	1947	1929	1885
	4	2179	2135	2101	2079	2056	2039	2021	1937
	5	2209	2166	2122	2101	2057	2058	2047	1956

Blower Performance: 120V 5-Speed High Efficiency ECM Motor

- All data is given while air handler is operating with a dry coil and air filter installed.
- Speeds marked ***bold with asterisk** are the factory speed settings for both heating and cooling.
- Heating speeds should not be reduced below factory setting.
- Different speeds can be set for cooling mode; see installation instructions for changing cooling speeds.
- For downflow operation (with field installed kit):
  - If factory-set speed tap 3 is desirable for your application, use speed tap 5 for downflow.

Lab Test Data		**Airflow (CFM) vs. External Static Pressure (inches W.C.)**					
Model	**Tap**	**0.1**	**0.2**	**0.3**	**0.4**	**0.5**	**0.6**
AX182A	1	529	492	429	367	328	289
	2	603	563	526	469	417	380
	***3**	757	725	701	668	639	586
	4	806	777	746	720	692	661
	5	849	826	798	768	745	720
AX24	1	687	633	573	482	424	373
	2	830	794	757	708	636	570
	***3**	971	948	913	882	840	802
	4	1012	988	960	922	889	849
	5	1057	1040	1011	979	943	909
AX300C	1	765	720	667	602	521	474
	2	971	950	913	879	836	797
	***3**	1163	1141	1116	1090	1054	1025
	4	1203	1189	1168	1139	1112	1078
	5	1222	1202	1188	1161	1128	1102
AX360C AX361C AX362C	1	835	798	761	710	629	569
	2	1158	1137	1114	1088	1054	1024
	***3**	1354	1327	1310	1290	1270	1239
	4	1418	1389	1369	1351	1327	1304
	5	1429	1412	1395	1379	1358	1330
AX480C AX481C	1	1169	1106	1008	930	859	799
	2	1658	1615	1575	1532	1477	1409
	***3**	1830	1792	1754	1737	1682	1622
	4	1863	1844	1809	1778	1740	1684
	5	1895	1855	1836	1805	1772	1714
AX482C AX600C AX601C AX602C	1	1317	1298	1239	1162	1049	972
	2	1809	1752	1706	1707	1671	1619
	***3**	1905	1851	1822	1784	1795	1756
	4	2013	1956	1908	1867	1890	1867
	5	2230	2171	2119	2072	2038	2048

Electrical Data: 5-Speed High Efficiency ECM Motor

No Electric Heat

Model	Elec. Heating Capacity		Blower Amps			Minimum Circuit Ampacity			Circuit Breaker Amps per Stage	
	kW [1]	BTUH								
	240 V [2]	240 V [2]	120 V	208 V	240 V	120 V	208 V	240 V	1.0	2.0
AX182A, AX241A	0	0	3.9	3.2	3.0	4.9	4.0	3.8	15.0	-
AX240B, AX242B	0	0	5.8	3.2	3.0	7.3	4.0	3.8	15.0	-
AX300C, AX360C AX361B, AX362C	0	0	5.8	3.2	3.0	7.3	4.0	3.8	15.0	-
AX480C, AX481C	0	0	8.7	3.4	3.2	10.9	4.2	4.0	15.0	-
AX482C, AX600C AX601C, AX602C	0	0	11.1	4.9	4.6	13.9	6.1	5.8	15.0	-

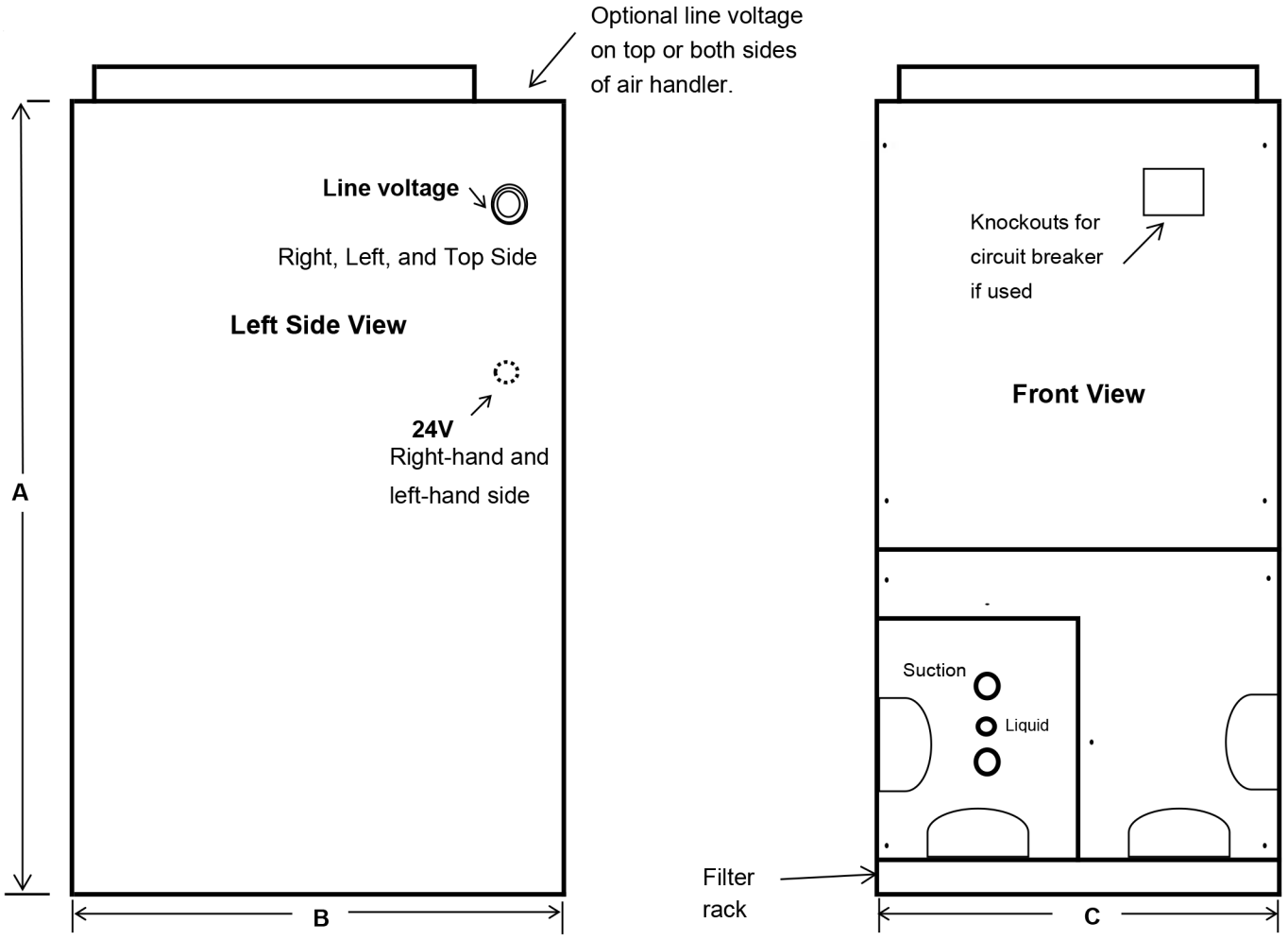
With Electric Heat

Unit Size	Circuit	Total Heat Capacity	Electric Heating capacity		Blower Amps (A)		Minimum Circuit Ampacity (A)		Maximum Circuit Breaker size[3] (A)	
			kW[1]	BTUH						
			240 V[2]	240 V[2]	208 V	240 V	208 V	240 V	208 V	240 V
AX182A AX241A AX240B AX242B	CKT 1	5	5	17061	3.2	3.0	26.6	29.8	30	30
	CKT 1	7.5	7.5	25591	3.2	3.0	37.9	42.8	40	45
	CKT 1	***10***[4]	10	34121	3.2	3.0	49.1	55.8	50	60
AX300C AX360C AX361B AX362C	CKT 1	5	5	17061	3.2	3.0	26.6	29.8	30	30
	CKT 1	7.5	7.5	25591	3.2	3.0	37.9	42.8	40	45
	CKT 1	10	10	34121	3.2	3.0	49.1	55.8	50	60
	CKT 1	***15***[5]	10	34121	3.2	3.0	49.1	55.8	50	60
	CKT 2		5	17061	3.2	3.0	22.6	26.0	25	30
AX480C AX481C	CKT 1	5	5	17061	4.5	4.3	28.2	31.4	30	35
	CKT 1	7.5	7.5	25591	4.5	4.3	39.5	44.4	40	45
	CKT 1	10	10	34121	4.5	4.3	50.8	57.5	60	60
	CKT 1	*15*	10	34121	4.5	4.3	50.8	57.5	60	60
	CKT 2		5	17061	4.5	4.3	22.6	26.0	25	30
	CKT 1	***20***[6]	10	34121	4.5	4.3	50.8	57.5	60	60
	CKT 2		10	34121	4.5	4.3	45.1	52.1	50	60
AX482C AX600C AX601C AX602C	CKT 1	7.5	7.5	25591	4.9	4.6	40.0	44.8	40	45
	CKT 1	10	10	34121	4.9	4.6	51.3	57.8	60	60
	CKT 1	*15*	10	34121	4.9	4.6	51.3	57.8	60	60
	CKT 2		5	17061	4.9	4.6	22.6	26.0	25	30
	CKT 1	***20***[6]	10	34121	4.9	4.6	51.3	57.8	60	60
	CKT 2		10	34121	4.9	4.6	45.1	52.1	50	60

[1] kW packages in ***bold italics*** require and include circuit breakers; circuit breakers are optional for others.
[2] For 208 volt use 0.751 correction factor for kW & BTUH.
[3] Breaker supplied with heat kit may need to be changed. Verify breaker sizing based on min, circuit ampacity.
[4] 10 kW electric heat must not be used in downflow configuration.
[5] 15 kW electric heat must be operated at high speed setting in downflow configuration.
[6] 20 kW electric heat must be operated at medium speed setting in downflow configuration.

Dimensions

				Supply Duct Opening		Return Duct Opening	
Air Handler Size	**A (in)**	**B (in)**	**C (in)**	**Depth (in)**	**Width (in)**	**Depth (in)**	**Width (in)**
AX182A **AX241A**	36	22	15	17	13	20.35	12.20
AX240B **AX242B** **AX361B**	41	22	18 1/2	17	16.5	20.35	16.20
AX300C **AX360C** **AX362C** **AX480C** **AX481C** **AX482C** **AX600C** **AX601C** **AX602C**	48	26	21 7/8	21	20	24.60	20.08



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