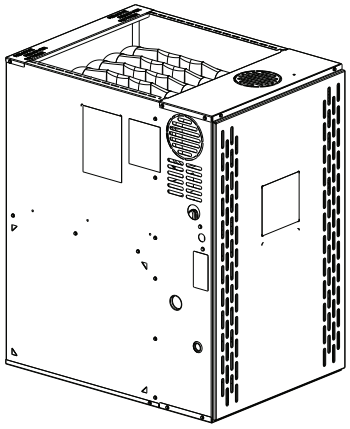
Product and Submittal Data

Upflow/Downflow/Horizontal Gas-Fired, 1–Stage Non-Condensing Induced Draft Furnaces with High Efficiency Motor

Upflow, Downflow, Horizontal Right/Left
A801X040AM3SDB
A801X040BM2SDB
A801X060BM4SDB
A801X080BM4SDB
A801X080CM5SDB
A801X100CM5SDB
A801X120DM5SDB



Notes:

- *Graphics in this document are for representation only. Actual model may differ in appearance.*
- *Models may have a "T" in the 12th digit designating they meet California less than 40 ng/J (NOx) emissions requirements.*

July 2025

FNR-PSD015A-EN

Introduction

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Data Notes

This document supersedes and includes data from the documents listed below.

Table 1. Data notes

Literature Number	Title
A801X040AM3-SUB-3*-EN	Upflow/Downflow Horizontal Left/Right Single Stage Non-condensing Gas Fired Furnace 40,000 BTUH Submittal
A801X040BM2-SUB-3*-EN	Upflow/Downflow Horizontal Left/Right Single Stage Non-condensing Gas Fired Furnace 40,000 BTUH Submittal
A801X060BM4-SUB-3*-EN	Upflow/Downflow Horizontal Left/Right Single Stage Non-condensing Gas Fired Furnace 60,000 BTUH Submittal
A801X080BM4-SUB-3*-EN	Upflow/Downflow Horizontal Left/Right Single Stage Non-condensing Gas Fired Furnace 80,000 BTUH Submittal
A801X080CM5-SUB-3*-EN	Upflow/Downflow Horizontal Left/Right Single Stage Non-condensing Gas Fired Furnace 80,000 BTUH Submittal
A801X100CM5-SUB-3*-EN	Upflow/Downflow Horizontal Left/Right Single Stage Non-condensing Gas Fired Furnace 80,000 BTUH Submittal
A801X120DM5-SUB-3*-EN	Upflow/Downflow Horizontal Left/Right Single Stage Non-condensing Gas Fired Furnace 120,000 BTUH Submittal

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General Features

Natural Gas Models

Central Heating furnace designs are certified by Intertek/ETL for both natural and propane gas. Limit setting and rating data were established and approved under standard rating conditions using American National Standards Institute standards.

Safe Operation

The Integrated Furnace Control is a solid state device which continuously monitors for presence of flame when the system is in the heating mode of operation. Dual solenoid combination gas valve and regulator provide additional safety.

Quick Heating

Durable, cycle tested, heavy gauge tubular aluminized steel heat exchanger quickly transfers heat to provide warm conditioned air to the structure. Low energy power vent blower, to increase efficiency and provide a discharge of gas fumes to the outside.

Burners

Multiport, Inshot burners will give years of quiet and efficient service. All models can be converted to propane gas with propane conversion kit.

Integrated Furnace Control

Exclusively designed operational program provides total control of furnace limit sensors, blowers, gas valve, flame control and includes self diagnostics for ease of service.

Energy Efficient Operation

Air-Tite™ cabinet design is certified to <1.4% air leakage per ASHRAE 193 "Method of Test for determining the artightness of HVAC Equipment."

Air Delivery

The nine-speed constant torque blower motor has sufficient airflow for most heating and cooling requirements and will switch from heating to cooling speeds on demand from room thermostat.

Styling

Heavy gauge steel and wrap-around cabinet construction for strength and beauty. Every orientation has at least two venting options. There are no knockouts on cabinet.

Features and General Operation

The furnace utilizes a Silicon Nitride Hot Surface Ignition system, which eliminates the waste of a constant burning pilot. The integrated system control lights the main burners upon a demand for heat from the room thermostat. Complete front service access.

1. Low energy power venter
2. Vent proving pressure switches

Features and Benefits

80% AFUE on 80% AFUE on A801X Furnace Models

Lowers utility bills

Electrically Efficient

Efficient airflow design reduces electrical energy use

34-InchTall

- Lighter, easier to move and fit into tight spaces like short basements or tight closets
- Works great with larger, high-efficiency coils
- No knockouts

4–Way Multi-Poise

8 SKU's —Upflow/Downflow/Horizontal Left / Horizontal Right

Airflow

At least 400 CFM/ton at 0.5-inch H_20 external static pressure

Regulatory

A801X meets requirements for 1.4% air cabinet leakage.

Dimensions

Widths are industry standard: 14.5 inch, 17.5 inch, 21 inch and 24.5 inch

Depth remains approximately 28-inch

Cabinet is compatible with industry standard coils, as well as, other accessories

Integrated Furnace Control

Setup / Status / Diagnostics / Digital Display

No dip switches

Last six errors stored

Dry contact EAC and HUM connections

All multi-pin polarized terminal connections; no spade terminals

Low voltage labeled above and below

Tubular Aluminized Steel Heat Exchanger Nine-Speed Constant Torque Blower Motor

Greater range of operation

Higher efficiency versus a standard PSC blower motor

Taps are electronically selectable at the IFC

Four-Way Multi-Poise (Upflow, Downflow, Horizontal Left and Right)

Easier to specify

Shipped ready to install (no conversion kits required)

Every model has at least two venting options

Accessories

Table 2. Accessories

Model Number	Description	Use with
BAYHANG	Horizontal Hanging Kit	All furnaces
BAYLIFTB[(a)]	Dual Return Kit (B size extension)	All B cabinet furnaces
BAYLIFTC[(a)]	Dual Return Kit (C size extension)	All C cabinet furnaces
BAYLIFTD[(a)]	Dual Return Kit (D size extension)	All D cabinet furnaces
BAYBASE205	Downflow Subbase	All furnaces in Downflow orientation
BAYFLTR203	Horizontal Filter Kit	B cabinet furnace in Downflow/Horizontal
BAYFLTR204	Horizontal Filter Kit	C cabinet furnace in Downflow/Horizontal
BAYFLTR205	Horizontal Filter Kit	D cabinet furnace in Downflow Horizontal
BAYFLTR206	Filter Access Door Kit (Downflow only)	All furnaces in Downflow orientation
BAYSF1165*[(a)]	1 in. SlimFit Cabinet with MERV 4 filter	All Upflow furnaces
BAYSF1255*	1 in. SlimFit Rack with MERV 4 filter	All furnaces when used in side return application, B-Cabinet furnaces only when in bottom return application.
FLRSF1255	1 in. Filter Replacement (Qty 12)	BAYSF1255*
BAYVENT600A	Internal Venting Kit	B, C, and D furnaces in Downflow orientation
BAYVENT800B	Masonry Chimney Vent Kit	All furnaces in Upflow orientation only
BAYSWT14AHALTAB	High Altitude Pressure Switch Kit	A801X040AM3*, A801X040BM2*
BAYSWT15AHALTAA	High Altitude Pressure Switch Kit	A801X060BM4*, A801X080BM4*
BAYSWT21AHALTAA	High Altitude Pressure Switch Kit	A801X080CM5*, A801X100CM5*, and A801X120DM5*
BAYLPSS400*	Propane Conversion Kit with Stainless Steel Burners	All furnaces, except A801X060AM3*
BAYBURNERSS	All Stainless Steel Natural Gas Burners - Set of Six	All upflow furnaces - special case, except A801X060AM3*
KIT20650	Propane Conversion Kit	A801X060AM3* only
PIP02095	U fitting for gas piping	All furnaces for right hand gas entry, except A801X060AM3*
KIT20644	High Altitude Kit	A801X060AM3* only

[(a)] Airflow greater than 1600 CFM, Furnace will require return air openings and filters on: (1) both sides, (2) one side and the bottom, or (3) just on the bottom.

Product Specifications

Table 3. Models A801X040AM3SDB, A801X040AM3TDB, A801X040BM2SDBA, A801X040BM2TDB, A801X060BM4SDBA, and A801X060BM4TDB

Model	A801X040AM3SDB [a] A801X040AM3TDB [a]	A801X040BM2SDB [a] A801X040BM2TDB [a]	A801X060BM4SDB [a] A801X060BM4TDB [a]
Type	Upflow / Horizontal / Downflow	Upflow / Horizontal / Downflow	Upflow / Horizontal / Downflow
Ratings [b]	—		
Input BTUH	40,000	40,000	80,000
Capacity BTUH (ICS) [c]	32,300	32,500	48,700
Temp. Rise (Min. - Max.) °F	30 - 60	30 - 60	30 - 60
AFUE - Rating [c]	80	80	80
Return Air Temp. (Min. - Max.) °F	55°F - 80°F	55°F - 80°F	55°F - 80°F
Blower Drive	DIRECT	DIRECT	DIRECT
Diameter - Width (in.)	11 X 8	11 X 8	11 X 8
No. Used	1	1	1
Speeds (No.) [d]	CTM - 9	CTM - 9	CTM - 9
CFM vs. in. w.g.	See Fan Performance Table	See Fan Performance Table	See Fan Performance Table
Motor HP	1/2	1/3	3/4
R.P.M.	1050	1050	1050
Volts / Ph / Hz	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60
FLA	6.4	4.1	9.2
Combustion Fan - Type	PSC	PSC	SP
Drive - No. Speeds	Direct - 1	Direct - 1	Direct - 1
Motor RPM	3300	3300	3300
Volts/Ph/Hz	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60
FLA	0.31	0.30	1.40
Inducer Orifice	1.20	1.15	1.40
Fiter - Furnished?	No	No	No
Type Recommended	High Velocity	High Velocity	High Velocity
Hi Vel. (No.-Size-Thk.)	1 - 14 X 25 - 1 in.	1 - 16 X 25 - 1 in.	1 - 16 X 25 - 1 in.
Vent Pipe Diamter - Min. (in.)	4 Round	4 Round	4 Round
Heat Exchanger - Type	Aluminized Steel	Aluminized Steel	Aluminized Steel
Gauge (Fired)	20 - 19	20 - 19	20 - 19
Orifices - Main	—		
Nat. Gas Qty. - Drill Size	2 - 45	2 - 45	3 - 45
L.P. Gas Qty. - Drill Size	2 - 56	2 - 56	3 - 56
Gas Valve	Redundant - Single Stage	Redundant - Single Stage	Redundant - Single Stage
Pilot Safety Device - Type	120 V SiNi Igniter	120 V SiNi Igniter	120 V SiNi Igniter
Burners - Qty	2	2	3

Table 3. Models A801X040AM3SDB, A801X040AM3TDB, A801X040BM2SDBA, A801X040BM2TDB, A801X060BM4SDBA, and A801X060BM4TDB (continued)

Model	A801X040AM3SDB [a] A801X040AM3TDB [a]	A801X040BM2SDB [a] A801X040BM2TDB[a]	A801X060BM4SDB[a] A801X060BM4TDB[a]
Power Connection. - V/Ph/HZ [e]	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60
Ampacity (Amps)	8.5	5.6	13.1
Max. Overcurrent Protection (Amps)	15	15	15
Pipe Connection Size (in.)	1/2	1/2	1/2
Dimensions	H x W x D	H x W x D	H x W x D
Uncrated (in.)	34 x 14.5 x 28.75	34 x 17.5 x 28.75	34 x 17.5 x 28.75
Crated (in.)	35.5 x 16.5 x 30.87	35.5 x 19.5 x 30.87	35.5 x 19.5 x 30.87
Weight	—		
Shipping (Lbs.)/Net (Lbs.)	102 / 94	128 / 120	132 / 124

[a] Central Furnace heating designs are certified to ANSI Z21.47 - latest edition.
[b] For U.S. applications, above input ratings (BTUH) are up to 2,000 feet, derate 4% per 1,000 feet for elevations above 2,000 feet above sea level.
[c] Based on U.S. government standard tests
[d] 9 Speed constant torque ECM Blower Motor.
[e] The above wiring specifications are in accordance with National Electric Code, however, installations must comply with local codes.

Table 4. Models A801X080BM4SDB, A801X080BM4TDB, A801X080CM5SDB, A801X080CM5TDB, A801X100CM5SDB, A801X100CM5TDB, A801X120DM5SDB, and A801X120DM5TDB

Mode;	A801X080BM4SDB [a] A801X080BM4TDB [a]	A801X080CM5SDB[a] A801X080CM5TDB[a]	A801X100CM5SDB[a] A801X100CM5TDB[a]	A801X120DM5SDB[a] A801X120DM5TDB[a]
Type	Upflow / Horizontal / Downflow	Upflow / Horizontal / Downflow	Upflow / Horizontal / Downflow	Upflow / Horizontal / Downflow
Ratings [b]	—			
Input BTUH	80,000	80,000	100,000	120,000
Capacity BTUH (ICS) [c]	65,100	64,700	80,700	98,000
Temp. Rise (Min. - Max.) °F	30 - 60	30 - 60	30 - 60	35 - 65
AFUE - Rating [c]	80	80	80	80
Return Air Temp. (Min. - Max.) °F	55°F - 80°F	55°F - 80°F	55°F - 80°F	55°F - 80°F
Blower Drive	DIRECT	DIRECT	DIRECT	DIRECT
Diameter - Width (in.)	11 X 8	11 X 11	11 X 11	11 X 11
No. Used	1	1	1	1
Speeds (No.) [d]	CTM - 9	CTM - 9	CTM - 9	CTM - 9
CFM vs. in. w.g.	See Fan Performance Table	See Fan Performance Table	See Fan Performance Table	See Fan Performance Table
Motor HP	3/4	1	1	1
R.P.M.	1050	1050	1050	1050
Volts / Ph / Hz	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60
FLA	9.2	10.9	10.9	10.9
Combustion Fan - Type	SP	PSC	PSC	PSC
Drive - No. Speeds	Direct - 1	Direct - 1	Direct - 1	Direct - 1
Motor RPM	3300	3300	3300	3300
Volts/Ph/Hz	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60

Table 4. Models A801X080BM4SDB, A801X080BM4TDB, A801X080CM5SDB, A801X080CM5TDB, A801X100CM5SDB, A801X100CM5TDB, A801X120DM5SDB, and A801X120DM5TDB (continued)

Mode;	A801X080BM4SDB [a] A801X080BM4TDB [a]	A801X080CM5SDB[a] A801X080CM5TDB[a]	A801X100CM5SDB[a] A801X100CM5TDB[a]	A801X120DM5SDB[a] A801X120DM5TDB[a]
FLA	1.40	0.43	0.58	0.57
Inducer Orifice	2.15	1.80	2.50	2.15
Filter - Furnished?	No	No	No	No
Type Recommended	High Velocity	High Velocity	High Velocity	High Velocity
Hi Vel. (No.-Size-Thk.)	1 - 16 X 25 - 1 in.	1 - 20 X 25 - 1 in.	1 - 20 X 25 - 1 in.	1 - 24 X 25 - 1 in.
Vent Pipe Diameter - Min. (in.)	4 Round	4 Round	4 Round	4 Round
Heat Exchnager - Type	Aluminized Steel	Aluminized Steel	Aluminized Steel	Aluminized Steel
Gauge (Fired)	20 - 19	20 - 19	20 - 19	20 - 19
Orifices - Main	—			
Nat. Gas Qty. - Drill Size	4 - 45	4 - 45	5 - 45	6 - 45
L.P. Gas Qty. - Drill Size	4 - 56	4 - 56	5 - 56	6 - 56
Gas Valve	Redundant - Single Stage	Redundant - Single Stage	Redundant - Single Stage	Redundant - Single Stage
Pilot Safety Device - Type	120 V SiNi Igniter	120 V SiNi Igniter	120 V SiNi Igniter	120 V SiNi Igniter
Burners - Qty	4	4	5	6
Power Connection - V/Ph/HZ [e]	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60
Ampacity (Amps)	13.1	14.2	14.4	14.4
Max. Overcurrent Protection (Amps)	15	15	15	15
Pipe Connection Size (in.)	1/2	1/2	1/2	1/2
Dimensions	H x W x D	H x W x D	H x W x D	H x W x D
Uncrated (in.)	34 x 17.5 x 28.75	34 x 21 x 28.75	34 x 21 x 28.75	34 x 24.5 x 28.75
Crated (in.)	35.5 x 19.5 x 30.87	35.5 x 23 x 30.87	35.5 x 23 x 30.87	35.5 x 26.5 x 30.87
Weight	—			
Shipping (Lbs.)/Net (Lbs.)	137 / 129	142 / 134	144 / 136	160 / 152

[a] Central Furnace heating designs are certified to ANSI Z21.47 - latest edition.
[b] For U.S. applications, above input ratings (BTUH) are up to 2,000 feet, derate 4% per 1,000 feet for elevations above 2,000 feet above sea level.
[c] Based on U.S. government standard tests
[d] 9 Speed constant torque ECM Blower Motor.
[e] The above wiring specifications are in accordance with National Electric Code, however, installations must comply with local codes.

Airflow Tables

Table 5. Airflow performance — model A801X040AM3

Furnace Airflow (CFM) Vs. External Static Pressure (in. W.C.)							
Model	**Tap**	**Static**	**0.1**	**0.3**	**0.5**	**0.7**	**0.9**
A801X040AM3	**1**	**CFM / WATTS**	592 / 40	342 / 43	93 / 46	—	—
	2	**CFM / WATTS**	666 / 48	467 / 56	268 / 65	70 / 74	—
	3	**CFM / WATTS**	687 / 49	493 / 59	299 / 69	105 / 78	—
	4	**CFM / WATTS**	938 / 100	788 / 111	638 / 123	488 / 134	338 / 146
	5	**CFM / WATTS**	1006 / 119	870 / 131	733 / 144	597 / 156	461 / 169
	6	**CFM / WATTS**	1068 / 140	944 / 154	820 / 167	696 / 181	573 / 194
	7	**CFM / WATTS**	1174 / 181	1066 / 196	957 / 211	848 / 226	740 / 241
	8	**CFM / WATTS**	1167 / 194	1098 / 219	1029 / 244	960 / 269	891 / 294
	9	**CFM / WATTS**	1556 / 398	1474 / 416	1392 / 435	1310 / 453	1228 / 471

Table 6. Airflow performance — model A801X040BM2

Furnace Airflow (CFM) Vs. External Static Pressure (in. W.C.)							
Model	**Tap**	**Static**	**0.1**	**0.3**	**0.5**	**0.7**	**0.9**
A801X040BM2	**1**	**CFM / WATTS**	526 / 34	—	—	—	—
	2	**CFM / WATTS**	744 / 54	533 / 63	322 / 72	110 / 81	—
	3	**CFM / WATTS**	820 / 68	662 / 81	504 / 94	346 / 106	188 / 119
	4	**CFM / WATTS**	967 / 97	811 / 110	654 / 122	498 / 135	341 / 148
	5	**CFM / WATTS**	997 / 104	840 / 116	687 / 129	533 / 142	380 / 154
	6	**CFM / WATTS**	1052 / 119	911 / 133	771 / 148	630 / 162	490 / 176
	7	**CFM / WATTS**	1099 / 134	968 / 150	837 / 165	706 / 180	575 / 196
	8	**CFM / WATTS**	1168 / 157	1047 / 174	926 / 191	805 / 208	684 / 225
	9	**CFM / WATTS**	1303 / 214	1196 / 233	1088 / 252	981 / 271	874 / 290

Table 7. Airflow performance — model A801X060BM4

Furnace Airflow (CFM) Vs. External Static Pressure (in. W.C.)							
Model	**Tap**	**Static**	**0.1**	**0.3**	**0.5**	**0.7**	**0.9**
A801X060BM4	**1**	**CFM / WATTS**	596 / 38	287 / 42	—	—	—
	2	**CFM / WATTS**	851 / 70	667 / 81	483 / 92	299 / 102	115 / 113
	3	**CFM / WATTS**	1142 / 141	1018 / 156	893 / 172	769 / 187	644 / 203
	4	**CFM / WATTS**	1196 / 160	1079 / 176	961 / 192	844 / 208	726 / 224
	5	**CFM / WATTS**	1362 / 220	1258 / 239	1154 / 257	1050 / 276	946 / 294
	6	**CFM / WATTS**	1416 / 250	1319 / 269	1221 / 288	1124 / 307	1026 / 327
	7	**CFM / WATTS**	1495 / 287	1402 / 307	1309 / 327	1216 / 347	1123 / 367
	8	**CFM / WATTS**	1574 / 337	1487 / 357	1401 / 378	1314 / 399	1228 / 420
	9	**CFM / WATTS**	1983 / 659	1899 / 670	1815 / 680	1730 / 691	1646 / 701

Table 8. Airflow performance — model A801X080BM4

Furnace Airflow (CFM) Vs. External Static Pressure (in. W.C.)							
Model	**Tap**	**Static**	**0.1**	**0.3**	**0.5**	**0.7**	**0.9**
A801X080BM4	**1**	**CFM / WATTS**	552 / 34	160 / 34	—	—	—
	2	**CFM / WATTS**	891 / 82	720 / 93	549 / 105	378 / 117	207 / 129
	3	**CFM / WATTS**	1123 / 141	996 / 157	869 / 173	742 / 189	615 / 205
	4	**CFM / WATTS**	1344 / 224	1240 / 244	1136 / 263	1033 / 283	929 / 302
	5	**CFM / WATTS**	1479 / 290	1384 / 312	1290 / 333	1196 / 354	1102 / 375
	6	**CFM / WATTS**	1583 / 354	1496 / 376	1408 / 398	1321 / 420	1234 / 442
	7	**CFM / WATTS**	1654 / 405	1572 / 428	1491 / 451	1409 / 474	1327 / 496
	8	**CFM / WATTS**	1818 / 542	1739 / 561	1661 / 581	1582 / 600	1503 / 619
	9	**CFM / WATTS**	1926 / 645	1841 / 656	1756 / 667	1670 / 679	1585 / 690

Table 9. Airflow performance — model A801X080CM5

Furnace Airflow (CFM) Vs. External Static Pressure (in. W.C.)							
Model	**Tap**	**Static**	**0.1**	**0.3**	**0.5**	**0.7**	**0.9**
A801X080CM5	**1**	**CFM / WATTS**	728 / 44	358 / 49	—	—	—
	2	**CFM / WATTS**	809 / 53	540 / 63	271 / 74	—	—
	3	**CFM / WATTS**	1440 / 185	1273 / 201	1105 / 218	938 / 234	770 / 250
	4	**CFM / WATTS**	1536 / 220	1385 / 238	1233 / 257	1081 / 275	929 / 293
	5	**CFM / WATTS**	1689 / 278	1552 / 299	1414 / 320	1277 / 342	1140 / 363
	6	**CFM / WATTS**	1792 / 326	1661 / 348	1530 / 371	1400 / 394	1269 / 417
	7	**CFM / WATTS**	1899 / 373	1771 / 397	1643 / 422	1515 / 446	1387 / 471
	8	**CFM / WATTS**	2094 / 500	1985 / 527	1875 / 554	1766 / 582	1656 / 609
	9	**CFM / WATTS**	2533 / 931	2414 / 932	2295 / 933	2176 / 933	2058 / 934

Table 10. Airflow performance — model A801X100CM5

Furnace Airflow (CFM) Vs. External Static Pressure (in. W.C.)							
Model	**Tap**	**Static**	**0.1**	**0.3**	**0.5**	**0.7**	**0.9**
A801X100CM5	**1**	**CFM / WATTS**	821 / 55	442 / 55	64 / 54	—	—
	2	**CFM / WATTS**	1359 / 163	1195 / 180	1031 / 198	868 / 215	704 / 233
	3	**CFM / WATTS**	1602 / 246	1461 / 268	1321 / 290	1180 / 312	1040 / 334
	4	**CFM / WATTS**	1807 / 336	1678 / 362	1550 / 388	1421 / 414	1292 / 440
	5	**CFM / WATTS**	1827 / 345	1700 / 371	1572 / 398	1444 / 425	1317 / 451
	6	**CFM / WATTS**	1925 / 395	1800 / 423	1675 / 451	1550 / 479	1425 / 508
	7	**CFM / WATTS**	2102 / 503	1985 / 534	1869 / 566	1752 / 597	1635 / 628
	8	**CFM / WATTS**	2222 / 602	2115 / 635	2008 / 667	1901 / 700	1794 / 732
	9	**CFM / WATTS**	2458 / 896	2351 / 913	2245 / 930	2138 / 947	2032 / 964

Table 11. Airflow performance — model A801X120DM5

Furnace Airflow (CFM) Vs. External Static Pressure (in. W.C.)							
Model	**Tap**	**Static**	**0.1**	**0.3**	**0.5**	**0.7**	**0.9**
A801X120DM5	**1**	**CFM / WATTS**	1469 / 184	912 / 126	355 / 68	—	—
	2	**CFM / WATTS**	1429 / 175	1165 / 171	900 / 168	636 / 164	371 / 160
	3	**CFM / WATTS**	1567 / 215	1401 / 232	1235 / 248	1069 / 264	903 / 280
	4	**CFM / WATTS**	1858 / 334	1731 / 361	1605 / 388	1478 / 415	1351 / 441
	5	**CFM / WATTS**	2004 / 418	1890 / 447	1776 / 476	1662 / 505	1548 / 534
	6	**CFM / WATTS**	2110 / 488	2004 / 518	1898 / 549	1792 / 580	1686 / 611
	7	**CFM / WATTS**	2245 / 596	2148 / 629	2052 / 662	1956 / 695	1860 / 729
	8	**CFM / WATTS**	2440 / 765	2345 / 794	2250 / 824	2155 / 854	2060 / 884
	9	**CFM / WATTS**	2536 / 882	2431 / 904	2325 / 927	2220 / 949	2114 / 972

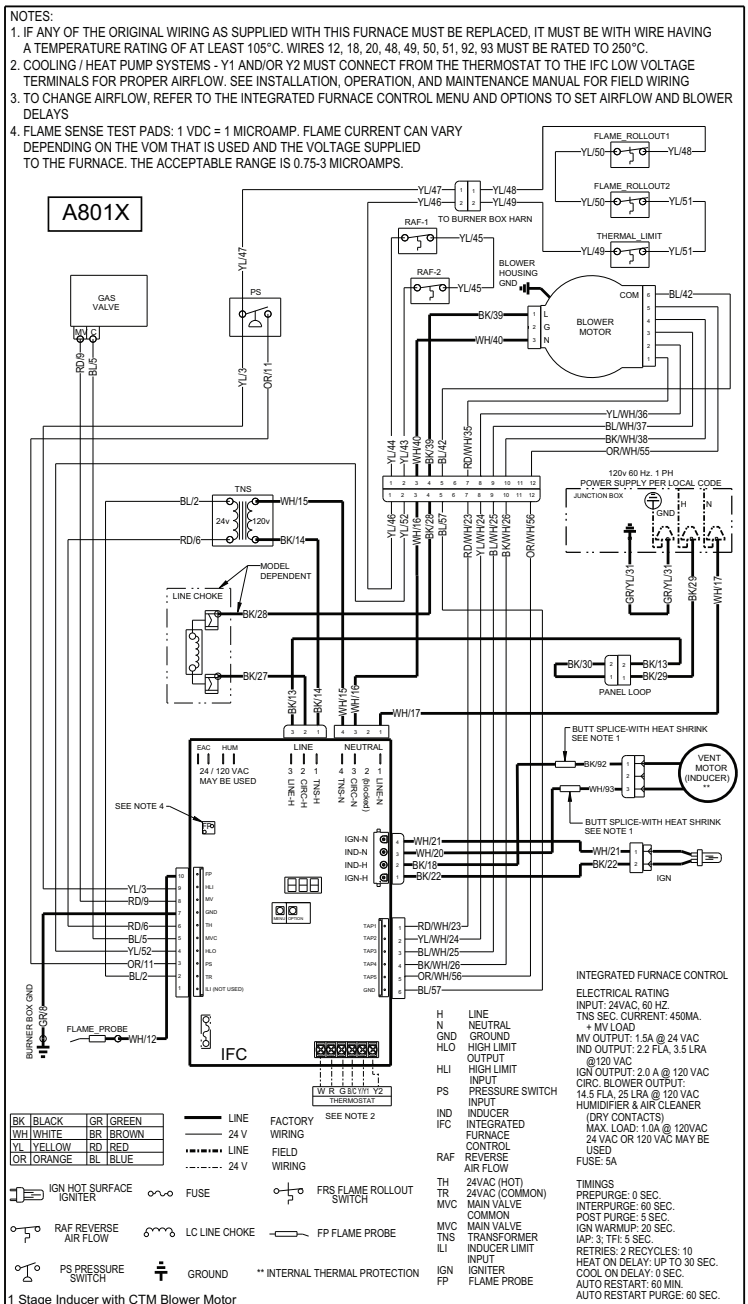
CFM Versus Temperature Rise

Table 12. A801X heating

Model	CFM Versus Temperature Rise																			
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
A801X040AM3	59	49	42	37	33	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—
A801X040BM2	59	49	42	37	33	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—
A801X060BM4	—	—	—	56	49	44	40	37	34	32	—	—	—	—	—	—	—	—	—	—
A801X080BM4	—	—	—	—	—	59	54	49	46	42	40	37	35	33	—	—	—	—	—	—
A801X080CM5	—	—	—	—	—	59	54	49	46	42	40	37	35	33	—	—	—	—	—	—
A801X100CM5	—	—	—	—	—	—	—	—	57	53	49	46	44	41	39	37	35	34	32	31
A801X120DM5	—	—	—	—	—	—	—	—	—	—	59	56	52	49	47	44	42	40	39	37

Wiring Diagrams

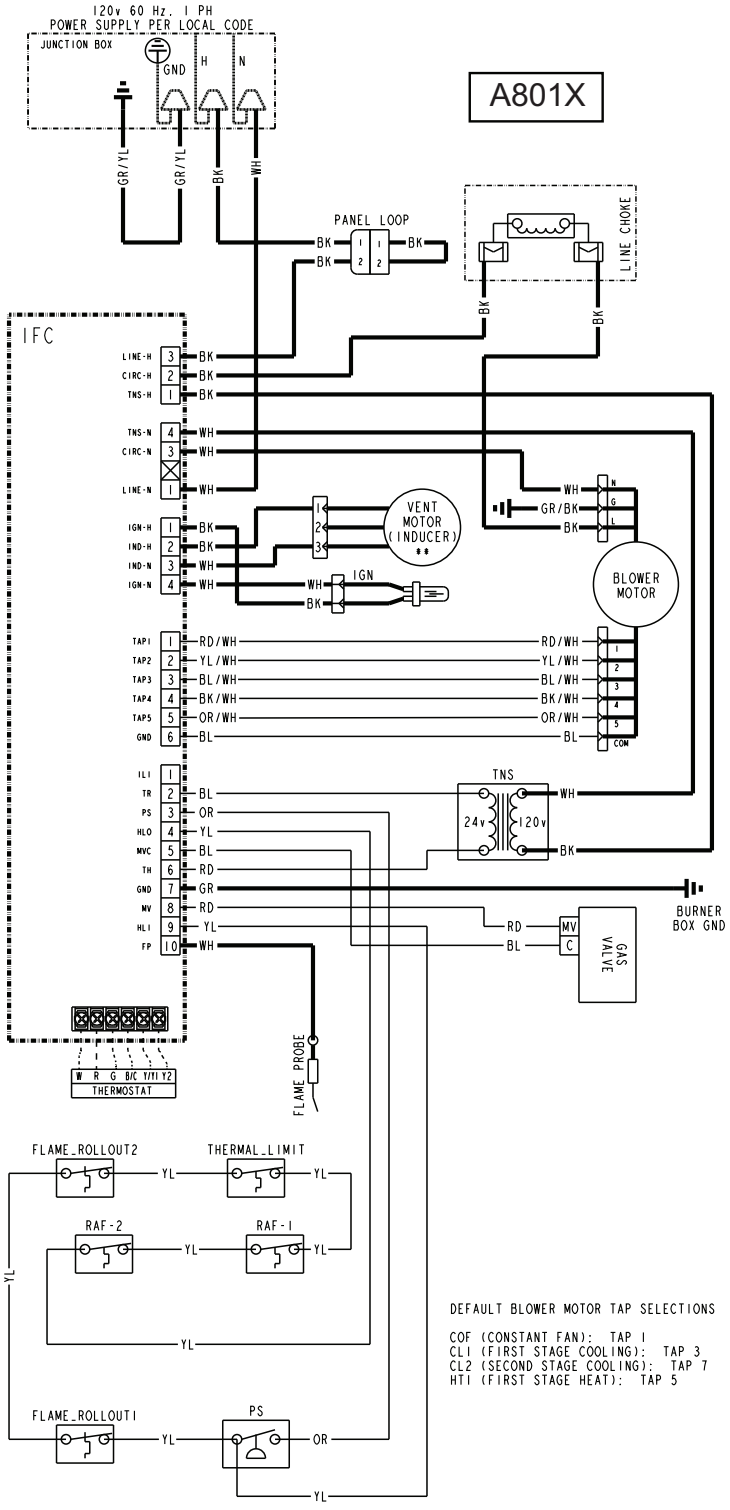
Figure 1. A801X — wiring diagram



1 Stage Inducer with CTM Blower Motor

Status Codes		HOd	Heat Off Delay (sec)		E3.1	Shorted Pressure Switch	
Idl	Idle	COF	Blower Tap for Continuous Fan		E3.2	Open Pressure Switch	
Ht	Heating	COP	C1.	Blower Tap for 1st Stage Compressor Mode	E04	Open Thermal Limit, Rollout Switch, or Reverse Airflow Switch	
tP	Blower Tap Number						
COF	Continuous Fan		C2.	Blower Tap for 2nd Stage Compressor Mode	E05	Flame detected, should not be present	
CP1	Cooling/Heat Pump Mode				E6.1	Voltage reversed polarity	
dft	Defrost Mode	HtP	H1.	Blower Tap for Heating Mode	E6.2	Bad Grounding	
Menu Options		r Un	Run Test Mode		E6.3	(1) Igniter relay fails (2) Igniter open	
Orn	Orientation	Error Codes					
Err	Active Alarm Menu	E01	Loss of IRQ or internal failures		E7.1	Gas valve is energized whenit should be off	
L6F	Last 6 Faults (To Clear, Hold Option Button 5 sec)	E2.1	Retry exceeded (Failed to est flame)		E08	Flame current is low, but still strong enough to allow operation	
		E2.2	Recycles exceeded (loss of established flame or PS open x10)		E11	(1) Gas valve not energized (2) Gas valve relay stuck closed	
Cr	Code Release Number						
COd	Cooling Off Delay (sec)	E2.3	Gas Valve not energized when it should be exceeded after 10 times		E12	Open fuse	D345844P01 REV H
OdU	Outdoor Unit						

Figure 2. A801X — ladder diagram



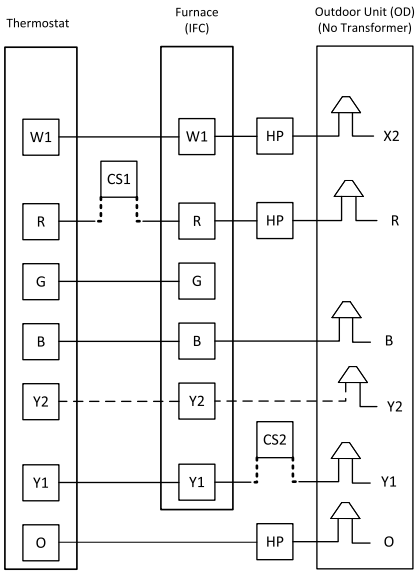
Electrical Connections

Make wiring connections to the unit as indicated on enclosed wiring diagram. As with all gas appliances using electrical power, this furnace shall be connected into a permanently live electric circuit. It is recommended that furnace be provided with a separate "circuit protection device" electric circuit. The furnace must be electrically grounded in accordance with local codes or in the absence of local codes with the National Electrical Code, ANSI/NFPA 70 , if an external electrical source is utilized. The integrated furnace control is polarity sensitive. The hot leg of the 120V power supply must be connected to the black power lead as indicated on the wiring diagram.

Note: *Refer to the"Wiring Diagrams," p. 14 section and unit wiring diagram attached to furnace.*

Field Wiring

Figure 3. Field wiring diagram for A801X with one or two stage AC or heat pump



NOTES:
1) HP = Wiring used for Heat Pump System.
2) CS = wiring used for Condensate Switch (2 Options).
3) Y1 and/or Y2 must be connected from the thermostat to the IFC for proper airflow.
4) A/TCONT824 thermostats do not require the use of X2.
5) Recommended 1st stage airflow is 75% of total airflow

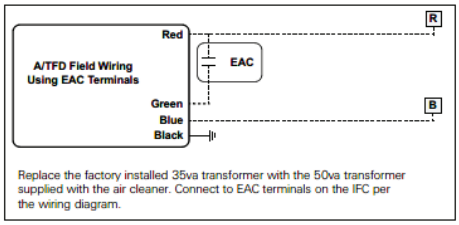
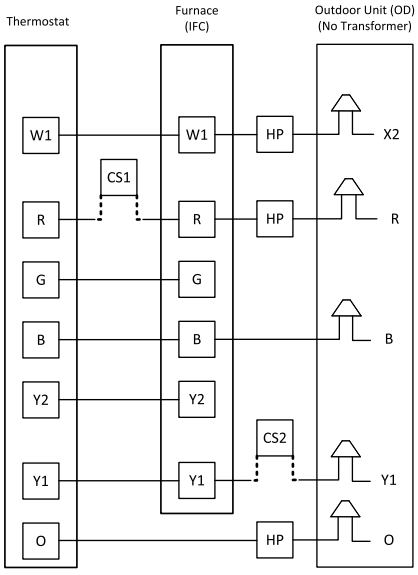
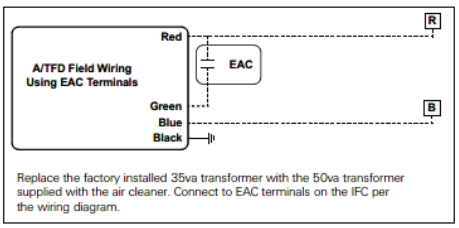


Figure 4. Field wiring diagram for A801X with single stage AC or heat pump with two stage airflow

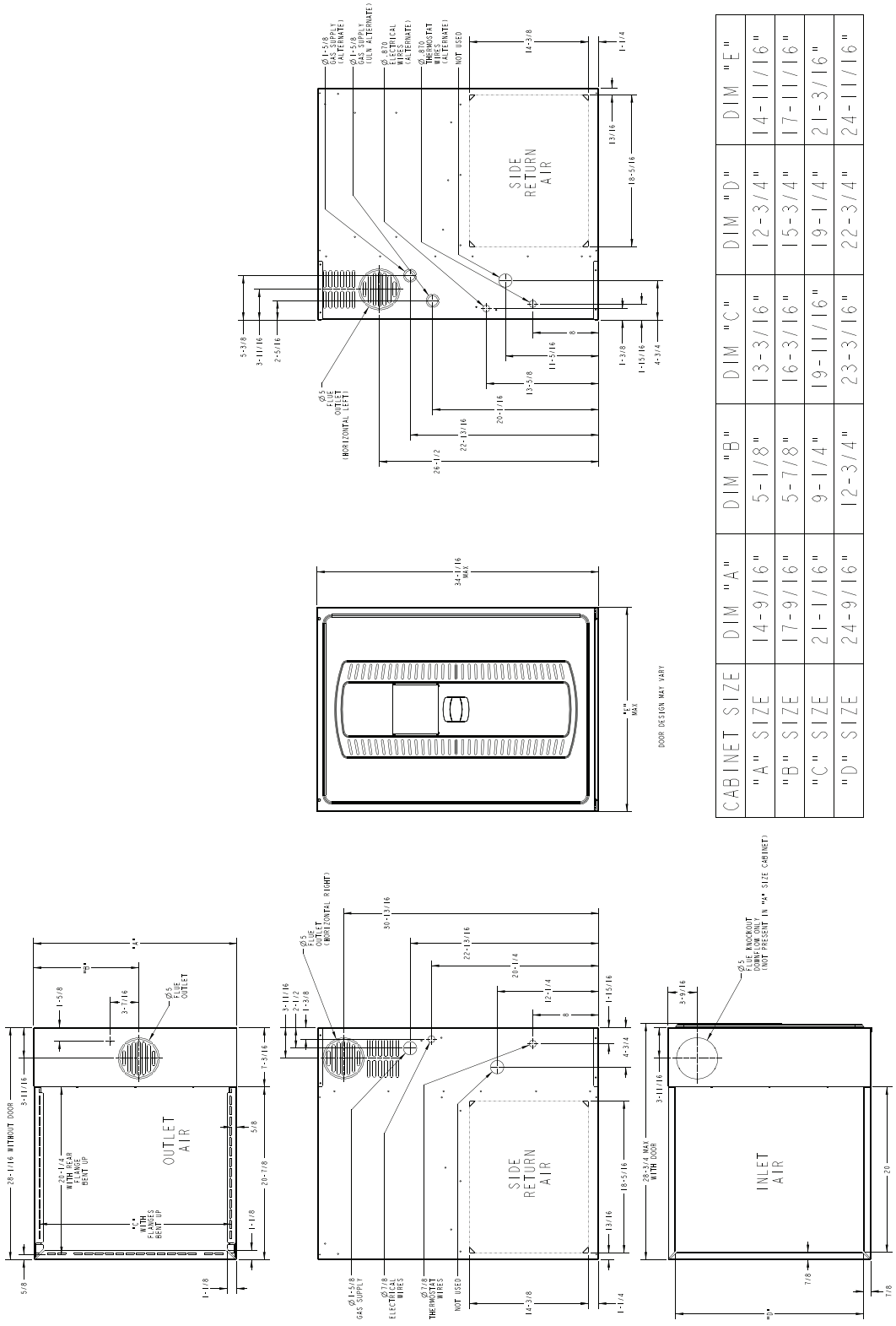


NOTES:
1) HP = Wiring used for Heat Pump System.
2) CS = wiring used for Condensate Switch (2 Options).
3) Y1 and Y2 must be connected from the thermostat to the IFC for proper airflow.
4) Thermostat must be setup for 2 stage OD
5) IFC Must be setup for 2 stage OD using the Menu/Option Buttons
6) Recommended 1st stage airflow is 75% of total airflow
7) A/TCONT824 thermostats do not require the use of X2.



Dimensional Data

Figure 5. 14.5-inch, 17.5-inch, 21-inch and 24.5-inch width cabinets



CABINET SIZE	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"
"A" SIZE	14-9/16"	5-1/8"	13-3/16"	12-3/4"	14-11/16"
"B" SIZE	17-9/16"	5-7/8"	16-3/16"	15-3/4"	17-11/16"
"C" SIZE	21-1/16"	9-1/4"	19-11/16"	19-1/4"	21-3/16"
"D" SIZE	24-9/16"	12-3/4"	23-3/16"	22-3/4"	24-11/16"

Notes

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