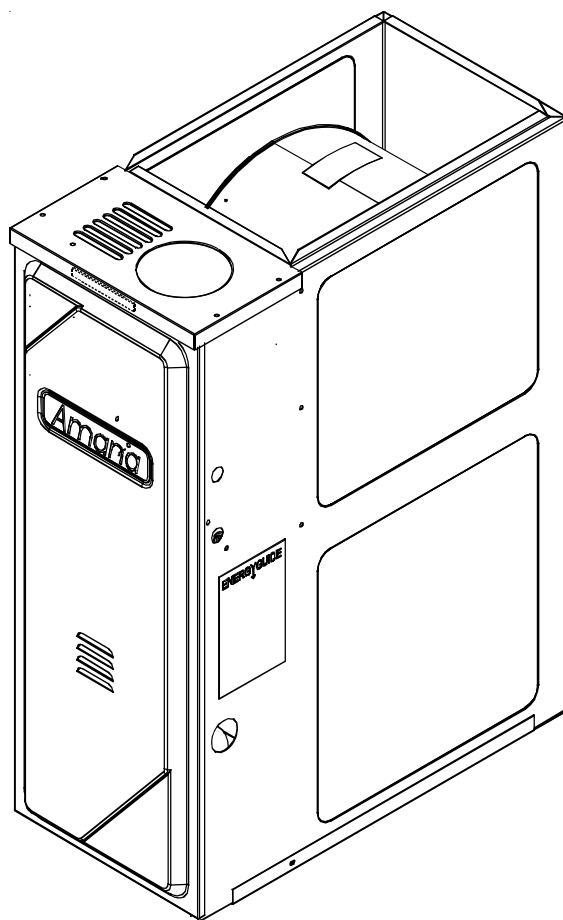


TECHNICAL INFORMATION MANUAL

ADV8 39" 80% Gas Furnace Dedicated Downflow

Models listed
on page 3

- Refer to current Service Manual for installation, operation, and troubleshooting information.
- All safety information must be followed as provided in the Service Manual.
- Refer to the appropriate Parts Catalog for part number information.



This manual is to be used by qualified, professionally trained HVAC technicians only. Goodman does not assume any responsibility for property damage or personal injury due to improper service procedures or services performed by an unqualified person.

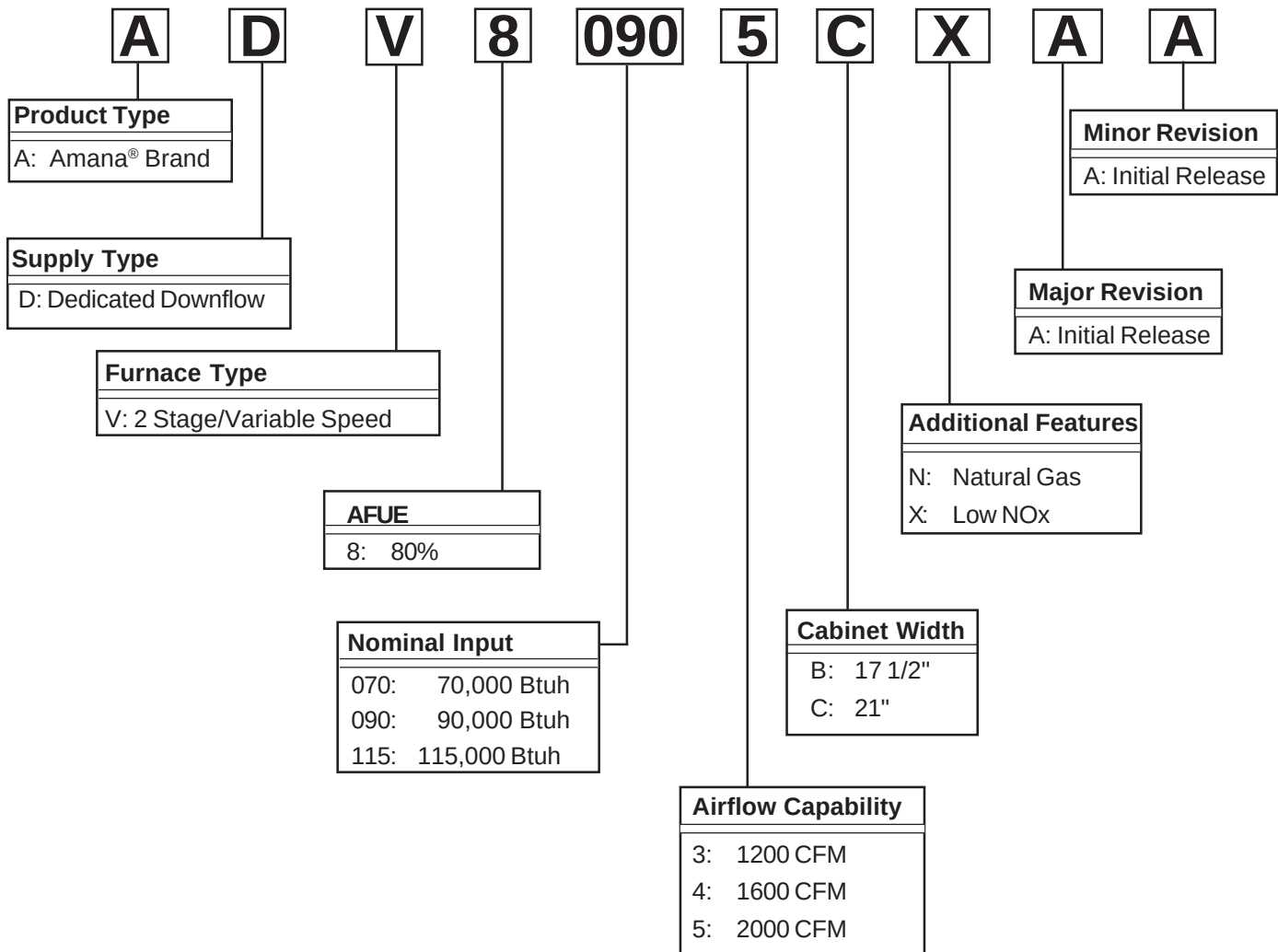
RT6612015
August 2006

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PRODUCT IDENTIFICATION

The model and manufacturing number are used for positive identification of component parts used in manufacturing. Please use these numbers when requesting service or parts information.



WARNING

HIGH VOLTAGE!

Disconnect ALL power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.



WARNING

ONLY individuals meeting the requirements of an "entry level technician" as specified by the Air Conditioning and Refrigeration Institute (ARI) may use this information. Attempting to install or repair this unit without such background may result in product damage, personal injury or death.



WARNING

Goodman will not be responsible for any injury or property damage arising from improper service or service procedures. If you install or perform service on this unit, you assume responsibility for any personal injury or property damage which may result. Many jurisdictions require a license to install or service heating and air conditioning equipment.

PRODUCT IDENTIFICATION

The model and manufacturing number are used for positive identification of component parts used in manufacturing. Please use these numbers when requesting service or parts information.

MODELS

ADV80703BX**

ADV80905CX**

ADV81155CX**



WARNING

The United States Environmental Protection Agency (“EPA”) has issued various regulations regarding the introduction and disposal of refrigerants introduced into this unit. Failure to follow these regulations may harm the environment and can lead to the imposition of substantial fines. These regulations may vary by jurisdiction. A certified technician must perform the installation and service of this product. Should questions arise, contact your local EPA office. Violations of EPA regulations may result in fines or other penalties.



WARNING

To prevent the risk of property damage, personal injury, or death, do not store combustible materials or use gasoline or other flammable liquids or vapors in the vicinity of this appliance.



WARNING

Do not connect or use any device that is not design certified by Goodman for use with this unit. Serious property damage, personal injury, reduced unit performance and/or hazardous conditions may result from the use of such non-approved devices.

PRODUCT DESIGN

General Operation

The ADV8 furnaces are equipped with an electronic ignition device used to light the burners and an induced draft blower to exhaust combustion products.

An interlock switch prevents furnace operation if the inner blower door is not in place. Keep the blower access door in place except for inspection and maintenance. (See *illustration on page 5.*)

This furnace is also equipped with a self-diagnosing electronic control module. In the event a furnace component is not operating properly, the control module LED will flash on and off in a factory-programmed sequence, depending on the problem encountered. This light can be viewed through the observation window in the blower access door. Refer to the *Troubleshooting Chart* for further explanation of the LED codes and *Abnormal Operation - Integrated Ignition Control* section in the Service Instructions for an explanation of the possible problem.

The rated heating capacity of the furnace should be greater than or equal to the total heat loss of the area to be heated. The total heat loss should be calculated by an approved method or in accordance with "ASHRAE Guide" or "Manual J-Load Calculations" published by the Air Conditioning Contractors of America.

*Obtain from: American National Standards Institute 1430 Broadway New York, NY 10018

Location Considerations

- The furnace should be as centralized as is practical with respect to the air distribution system.
- Do not install the furnace directly on carpeting, tile, or combustible material other than wood flooring.
- When installed in a residential garage, the furnace must be positioned so the burners and ignition source are located not less than 18 inches (457 mm) above the floor and protected from physical damage by vehicles.

Accessibility Clearances (Minimum)

Unobstructed front clearance of 24" **for servicing** is recommended.

Top clearance for horizontal configuration - 1"

MINIMUM CLEARANCE TO COMBUSTIBLE MATERIALS - INCHES

Sides	Rear	Front*	Vent		Top
			SW	B	
1	0	3	6	1	1

Approved for line contact in the horizontal position.

* 24" clearance for serviceability recommended.

** Single Wall Vent (SW) to be used only as a connector.

Refer to the venting tables outlined in the Installation Manual for

Note: In all cases accessibility clearance shall take precedence over clearances from the enclosure where accessibility clearances are greater. All dimensions are given in inches.

High Altitude Derate

When this furnace is installed at high altitude, the appropriate High Altitude orifice kit must be installed. This is required due to the natural reduction in the density of both the gas fuel and combustion air as altitude increases. The kit will provide the proper design certified input rate within the specified altitude range.

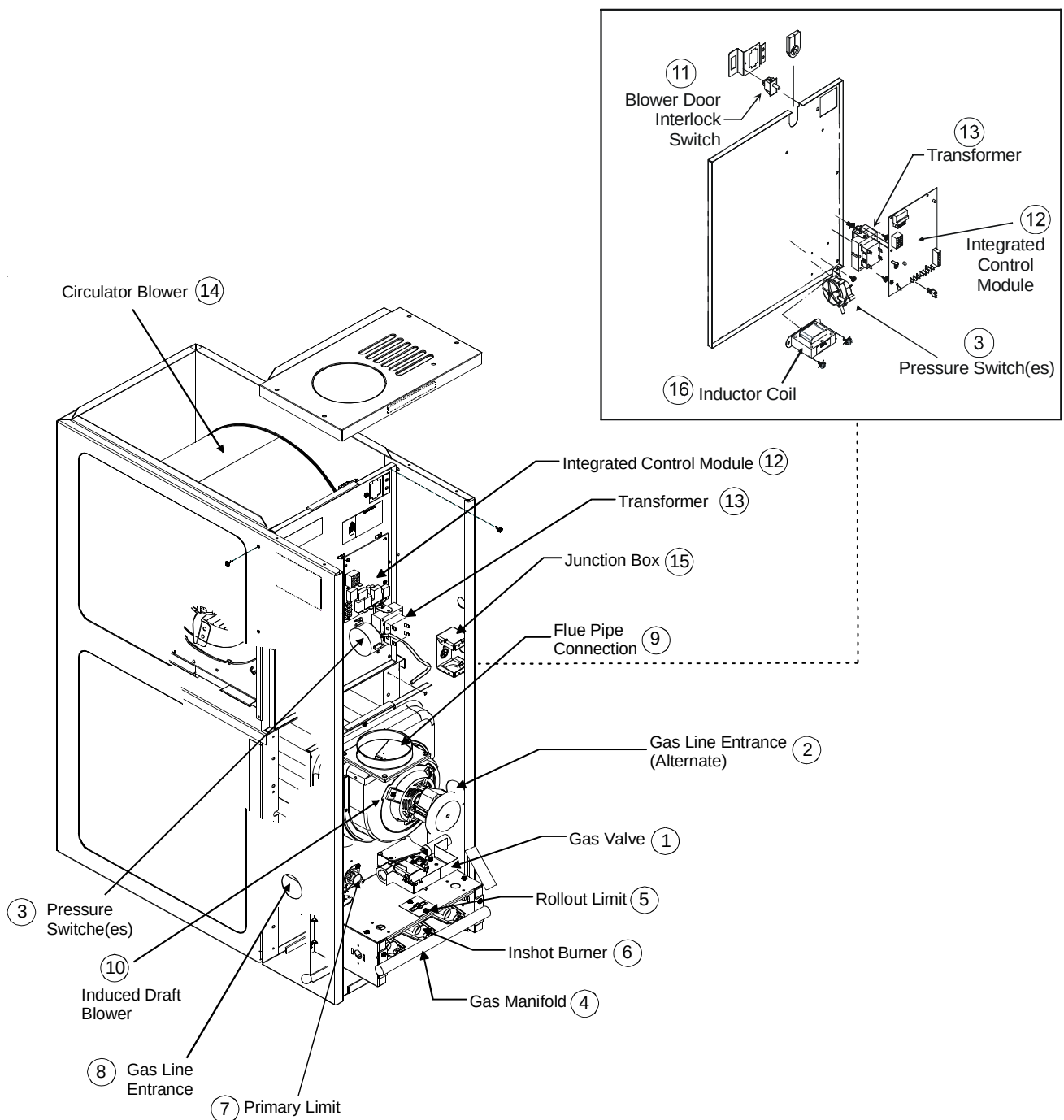
INPUT PER BURNER - 22,500 BTUH NATURAL GAS / 20,000 BTUH L.P.								
	ELEVATION ABOVE SEA-LEVEL (FEET)							
	2000	3000	4000	4500	5000	6000	7000	8000
US BURNER ORIFICE	44/55	44/55	45/56		45/56	46/57	47/58	47/58
CANADA BURNER ORIFICE	44/55			47/57				

HA-02 HIGH ALTITUDE CONVERSION KIT REQUIRED

Tabled data is based upon the furnace input being reduced for altitudes above sea level. U.S. 4% per 1,000 feet. Canada 10% derate for 2,000-4,000 feet.

High altitude kits are purchased according to the installation altitude and usage of either natural or propane gas. Refer to the chart above for a tabular listing of appropriate altitude ranges and corresponding manufacturer's high altitude Natural Gas and Propane Gas kits. For a tabular listing of appropriate altitude ranges and corresponding manufacturer's High Altitude Pressure Switch kits, refer to either the *Pressure Switch Trip Points & Usage Chart* in this manual or the *Accessory Charts* in Service Instructions.

COMPONENT IDENTIFICATION

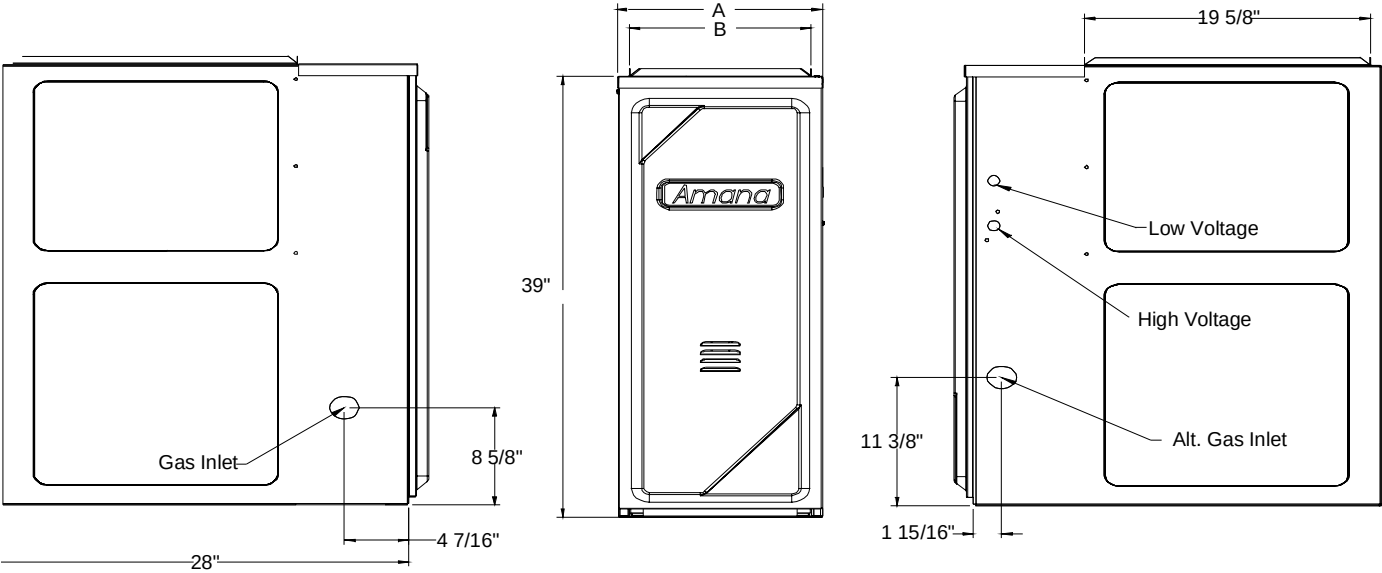


Downflow /Horizontal Models

- | | |
|------------------------------------|--|
| 1 Gas Valve | 10 Induced Draft Blower |
| 2 Gas Line Entrance (Alternate) | 11 Blower Door Interlock Switch |
| 3 Pressure Switch(es) | 12 Integrated Control Module
(with fuse and diagnostic LED) |
| 4 Gas Manifold | 13 Transformer (40 VA) |
| 5 Rollout Limit | 14 Circulator Blower |
| 6 Inshot Burners | 15 Junction Box |
| 7 Primary Limit | 16 Inductor Coil |
| 8 Gas Line Entrance | (available with models using 3/4 & 1 HP motors) |
| 9 Flue Pipe Connection (Alternate) | |

COMPONENT IDENTIFICATION

ADV8****XA



CABINET SIZE	A	B	Non-Combustible Floor base
ADV80703BX**	17-1/2	16	SBT17
ADV80905CX**	21	19-1/2	SBT21
ADV81155CX**	21	19-1/2	SBT21

All dimensions are in inches.

PRODUCT DESIGN

PRESSURE SWITCH TRIP POINTS AND USAGE CHART							
MODEL	0 to 8,000 ft.						
	Negative Pressure ID Blower With Flue not Firing typical Sea Level Data ⁽¹⁾		Negative Pressure ID Blower With Flue Firing typical Sea Level Data ⁽²⁾		TRIP POINT ID BLOWER PRESSURE SWITCH		ID BLOWER PRESSURE SWITCH PART #
	LOW FIRE	HIGH FIRE	LOW FIRE	HIGH FIRE	LOW FIRE	HIGH FIRE	
ADV80703BX**	-0.35	-0.70	-0.25	-0.60	-0.20	-0.55	11177118
ADV80905CX**	-0.35	-0.70	-0.25	-0.60	-0.20	-0.55	11177118
ADV81155CX**	-0.52	-0.75	-0.42	-0.65	-0.37	-0.60	11177121

Note: All negative pressure readings are in inches of water column (" w.c.).

(1) Data given is least negative pressure required for pressure switch to close.

(2) Data given is the least negative pressure required for pressure switch to remain closed.

T.O.D. PRIMARY LIMIT			
Part Number	B1370206	B1370189	B1370190
Open Setting (°F)	180	200	210
ADV80703BX**	1		
ADV80905CX**		1	
ADV81155CX**			1

PRODUCT DESIGN

ROLLOUT LIMIT SWITCH	
Part Number	B1370145
Open Setting (°F)	300
ADV80703BXA	1
ADV80905CXA	1
ADV81155CXA	1

AUXILIARY LIMIT SWITCHES	
Part Number	B1370155
Open Setting (°F)	120
ADV80703CX**	1
ADV809053BX**	1
ADV81155CX**	1

PRODUCT DESIGN

Coil Matches:

A large array of Amana® brand coils are available for use with the new ADV8 furnaces, in either upflow, counterflow or horizontal applications. These coils are available in both cased and uncased models, with or without a TXV expansion device. These 80% furnaces match up with the existing Amana® brand coils as shown in the chart below.

Coil Matches (for Amana® brand units using R22 and R-410A):

CABINET WIDTH	FURNACE MODELS	AIRFLOW (tons)	CAUF UNCASED "A" COILS	CAPF CASED "A" COILS	CHPF HORIZ. CASED "A" COIL
17 1/2	ADV80703BX**	1 1/2 - 3	CAUF1824B6 CAUF3030B6 CAUF3131B6 CAUF3636B6	CAPF018B2* CAPF025B2* CAPF030B2* CAPF039B2* CAPF036B2* CAPF037B2* CAPF042B2*	CHPF036B2* CHPF042B2* CHPF048B2* CHPF2430B6* CHPF3636B6*
21	ADV80905CX**	2 1/2 - 4	CAUF1824C6 CAUF3030C6 CAUF3131C6 CAUF3636C6 CAUF3642C6 CAUF4860C6	CAPF036C2* CAPF042C2*	CHPF048D2* CHPF060D2* CHPF3642C*
21	ADV81155CX**	3 - 5	CAUF3030D6 CAUF3636D6 CAUF3642D6 CAUF4860D6	CAPF049D2* CAPF060D2*	CHPF048D2* CHPF060D2* CHPF3642C* CHPF4860D6*

- All CAPF coils in B, C, & D widths have insulated blank off plates for use with one size smaller furnaces.
- All CAPF coils have a CAUF equivalent.
- All CHPF coils in B, C & D heights have an insulated Z bracket for use with one size smaller furnace.
- All proper coil combinations are subject to being ARI rated with a matched outdoor unit.

PRODUCT DESIGN

Thermostats:

The following Amana® brand Thermostats are suggested for use with the ADV8 Furnace Models:

Two-Stage Thermostat Description					
Thermostat	Programmable	Cool	Heat	Hard Wired	Battery Powered
1213411	No	2	2	Yes	Yes
1213407	Yes	1	2	Yes	Yes
1213406*	Yes	2	3	Yes	No

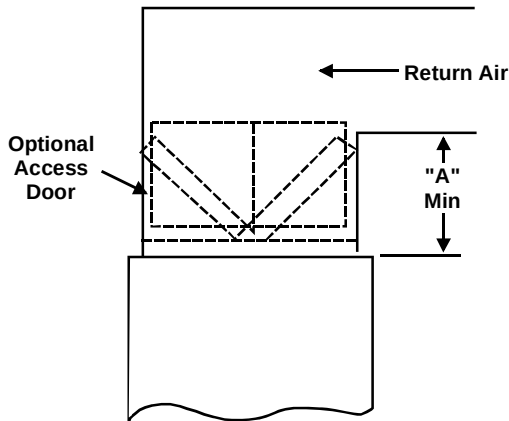
* For use in dual-fuel applications with a heat pump in a fossil fuel application. It is not for use with the **ADV8** as a sole heating source.

Filters:

Filters are required with this furnace and must be provided by the installer. The filters used must comply with UL900 or CAN/ULCS111 standards. Installing this furnace without filters will void the unit warranty.

Downflow Filters

This furnace has provisions for the installation of return air filters at the downflow top return. The furnace will accommodate the following filter sizes depending on cabinet size:



Downflow Top Return				
Cabinet Width	Filter Area (in ²)	Qty	Filter Size (in)	Dimension "A" (in)
17 1/2	600	2	15 x 20 x 1	14.2
21				13.0
17 1/2	800	2	20 x 20 x 1	19.7
21				18.8
17 1/2	1000	2	25 x 20 x 1	25.0
21				24.3

Refer to Minimum Filter Area tables to determine filter area requirement. **NOTE:** Filters can also be installed elsewhere in the duct system such as a central return.

		UPFLOW COOLING AIRFLOW REQUIREMENT (CFM)						
		600	800	1000	1200	1400	1600	2000
Input_Airflow	0703__XA	711*	711*	711*	711*	711*	768	-----
	0905__XA	914*	914*	914*	914*	914*	914*	960
	1155__XA	-----	1,022*	1,022*	1,022*	1,022*	1,022*	1,022*

		COUNTERFLOW COOLING AIRFLOW REQUIREMENT (CFM)						
		600	800	1000	1200	1400	1600	2000
Input_Airflow	0703__XA	356*	356*	356*	356*	356*	384	-----
	0905__XA	457*	457*	457*	457*	457*	457*	480
	1155__XA	-----	511*	511*	511*	511*	511*	511*

*Minimum filter area dictated by heating airflow requirement.

Disposable Minimum Filter Area (in²)

[Based on a 300 ft/min filter face velocity]

*Minimum filter area dictated by heating airflow requirement.

Permanent Minimum Filter Area (in²)

[Based on 600 ft/min filter face velocity]

FURNACE SPECIFICATIONS

ADV8

MODEL	ADV80703BX**	ADV80905CX**	ADV81155CX**
Btuh Input (US) High Fire	70,000	90,000	115,000
Output (US) High Fire (Natural Gas)	57,400	73,600	92,000
Output (US) High Fire (LP)	49,252	64,246	85,961
Btuh Input (US) Low Fire	52,500	67,500	86,000
Output (US) Low Fire (Natural)	42,000	54,000	69,000
Output (US) Low Fire (LP)	43,096	55,409	70,595
A.F.U.E.	80%	80%	80%
Rated External Static (" w.c.)	0.5	0.5	0.5
Temperature Rise (°F)	20 - 50	20 - 50	25 - 55
High Stage Pressure Switch Trip Point (" w.c.)	-0.55	-0.55	-0.60
Low Stage Pressure Switch Trip Point (" w.c.)	-0.20	-0.20	-0.37
Blower Wheel (D" x W")	10 x 8	10 x 10	10 x 10
Blower Horsepower	1/2 ECM	3/4 ECM	3/4 ECM
Blower Speeds	Refer to airflow charts on page 12-14.		
Max CFM @ 0.5 E.S.P.			
Power Supply	115 VAC / 60 HZ / 1 PH	115 VAC / 60 HZ / 1 PH	115 VAC / 60 HZ / 1 PH
Minimum Circuit Ampacity (MCA) ⁽¹⁾	10.4	12.8	12.8
Maximum Overcurrent Device (AMPS) ⁽²⁾	15	15	15
Transformer (VA)	40	40	40
Primary Limit Setting (°F)	180	200	210
Auxiliary Limit Setting (°F)	120	120	120
Rollout Limit Setting (°F)	300	300	300
Fan Delay On Heating	30 secs.	30 secs.	30 secs.
Off Heating ⁽³⁾	150 secs.	150 secs.	150 secs.
Fan Delay On Cooling	5 secs.	5 secs.	5 secs.
Off Cooling	45 secs	45 secs	45 secs
Fan Delay On - Fan Only	5 secs.	5 secs.	5 secs.
Gas Supply Pressure (Natural/Propane) (" w.c.)	7 / 11	7 / 11	7 / 11
Manifold Pressure (Natural/Propane) High Stage (" w.c.)	3.5 / 10	3.5 / 10	3.5 / 10
Manifold Pressure (Natural/Propane) Low Stage ("w.c.)	1.9 / 6.0	1.9 / 6.0	1.9 / 6.0
Orifice Size (Natural/Propane)	43 / 55	43 / 55	43 / 55
Number of Burners	3	4	5
Vent Connector Diameter (inches) ⁽⁴⁾	4	4	4
Shipping Weight (lbs.)	156	182	202

⁽¹⁾ Minimum Circuit Ampacity calculated as: (1.25 x Circulator Blower Amps) + I.D. Blower Amps.

⁽²⁾ Maximum Overcurrent Protection Device may use Time Delay Fuse or HACR type Circuit Breaker of the same size as noted.

⁽³⁾ Off Heating - this fan delay timing is adjustable (90, 120, 150 or 180 seconds), 150 seconds as shipped.

⁽⁴⁾ See Installation Instructions for appropriate vent diameter, length and number of elbows.

⁽⁵⁾ See Installation Instructions for appropriate combustion air pipe diameter, length and number of elbows.

NOTE: Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

BLOWER PERFORMANCE SPECIFICATIONS

High - or Single-Stage Cooling Speeds

ADV80703BX**		
Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP
A	Minus (-) Tap	540
	Nominal	600
	Plus (+) Tap	660
B	Minus (-) Tap	720
	Nominal	800
	Plus (+) Tap	880
C	Minus (-) Tap	900
	Nominal	1,000
	Plus (+) Tap	1,100
D	Minus (-) Tap	1,080
	Nominal	1,200
	Plus (+) Tap	1,320

ADV80905CX**		
Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP
A	Minus (-) Tap	720
	Nominal	800
	Plus (+) Tap	880
B	Minus (-) Tap	990
	Nominal	1,100
	Plus (+) Tap	1,210
C	Minus (-) Tap	1,260
	Nominal	1,400
	Plus (+) Tap	1,540
D	Minus (-) Tap	1,620
	Nominal	1,800
	Plus (+) Tap	1,980

ADV81155CX**		
Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP
A	Minus (-) Tap	765
	Nominal	850
	Plus (+) Tap	935
B	Minus (-) Tap	1,035
	Nominal	1,150
	Plus (+) Tap	1,265
C	Minus (-) Tap	1,305
	Nominal	1,450
	Plus (+) Tap	1,595
D	Minus (-) Tap	1,665
	Nominal	1,850
	Plus (+) Tap	2000*

Low-Stage Cooling Speeds

ADV80703BX**		
Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP
A	Minus (-) Tap	421**
	Nominal	468
	Plus (+) Tap	515
B	Minus (-) Tap	474
	Nominal	527
	Plus (+) Tap	579
C	Minus (-) Tap	527
	Nominal	585
	Plus (+) Tap	644
D	Minus (-) Tap	579
	Nominal	644
	Plus (+) Tap	708

ADV80905CX**		
Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP
A	Minus (-) Tap	553
	Nominal	614
	Plus (+) Tap	676
B	Minus (-) Tap	605
	Nominal	673
	Plus (+) Tap	740
C	Minus (-) Tap	658
	Nominal	731
	Plus (+) Tap	804
D	Minus (-) Tap	711
	Nominal	790
	Plus (+) Tap	869

ADV81155CX**		
Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP
A	Minus (-) Tap	563**
	Nominal	563**
	Plus (+) Tap	619
B	Minus (-) Tap	737
	Nominal	819
	Plus (+) Tap	901
C	Minus (-) Tap	763
	Nominal	848
	Plus (+) Tap	933
D	Minus (-) Tap	829
	Nominal	921
	Plus (+) Tap	1,014

NOTES:

* Motor CFM maximum

** Motor CFM minimum

1. These charts are for furnaces installed at 0' - 4,500'. At higher altitudes, a properly derated unit will have the same temperature rise at a particular CFM, while the ESP at that CFM will be lower.
2. The installation must be adjusted to obtain a temperature rise within the range listed on the furnace nameplate.
3. Do not operate above .5" w.c. ESP in heating mode.
4. Propane gas installations will have a High Stage rise approximately 4° lower than shown in above table.

BLOWER PERFORMANCE SPECIFICATIONS

Cooling-Based Continuous Fan

ADV80703BX**		
Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP
A	Minus (-) Tap	302
	Nominal	336
	Plus (+) Tap	370
B	Minus (-) Tap	444
	Nominal	493
	Plus (+) Tap	542
C	Minus (-) Tap	499
	Nominal	554
	Plus (+) Tap	610
D	Minus (-) Tap	554
	Nominal	616
	Plus (+) Tap	678

ADV80905CX**		
Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP
A	Minus (-) Tap	403
	Nominal	408
	Plus (+) Tap	449
B	Minus (-) Tap	582
	Nominal	647
	Plus (+) Tap	711
C	Minus (-) Tap	638
	Nominal	708
	Plus (+) Tap	779
D	Minus (-) Tap	693
	Nominal	770
	Plus (+) Tap	847

ADV81155CX**		
Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP
A	Minus (-) Tap	563**
	Nominal	563**
	Plus (+) Tap	563**
B	Minus (-) Tap	748
	Nominal	832
	Plus (+) Tap	915
C	Minus (-) Tap	776
	Nominal	862
	Plus (+) Tap	949
D	Minus (-) Tap	804
	Nominal	893
	Plus (+) Tap	983

NOTES:

* Motor CFM maximum

** Motor CFM minimum

1. These charts are for furnaces installed at 0' - 4,500'. At higher altitudes, a properly derated unit will have the same temperature rise at a particular CFM, while the ESP at that CFM will be lower.
2. The installation must be adjusted to obtain a temperature rise within the range listed on the furnace nameplate.
3. Do not operate above .5" w.c. ESP in heating mode.
4. Propane gas installations will have a High Stage rise approximately 4° lower than shown in above table.

BLOWER PERFORMANCE SPECIFICATIONS

Heating Speeds

ADV80703BX** (Rise Range 25 - 55 °F)				
Heating Speed Tap	Adjust Tap	Low Stage CFM @ .1" to .5" w.c. ESP	High Stage CFM @ .1" to .5" w.c. ESP	Rise
A	Minus (-) Tap	720	958	20-50
	Nominal	800	1,064	
	Plus (+) Tap	880	1,170	
B	Minus (-) Tap	810	1,077	
	Nominal	900	1,197	
	Plus (+) Tap	990	1,317	
C	Minus (-) Tap	900	1,197	
	Nominal	1,000	1,330	
	Plus (+) Tap	1,100	1,463	
D	Minus (-) Tap	990	1,317	
	Nominal	1,100	1,463	
	Plus (+) Tap	1,210	1,609	

ADV80905CX** (Rise Range 20 - 50 °F)				
Heating Speed Tap	Adjust Tap	Low Stage CFM @ .1" to .5" w.c. ESP	High Stage CFM @ .1" to .5" w.c. ESP	Rise
A	Minus (-) Tap	945	1,257	25-55
	Nominal	1,050	1,397	
	Plus (+) Tap	1,155	1,536	
B	Minus (-) Tap	1,035	1,377	
	Nominal	1,150	1,530	
	Plus (+) Tap	1,265	1,682	
C	Minus (-) Tap	1,125	1,496	
	Nominal	1,250	1,663	
	Plus (+) Tap	1,375	1,829	
D	Minus (-) Tap	1,215	1,616	
	Nominal	1,350	1,796	
	Plus (+) Tap	1,485	1,975	

ADV81155CX** (Rise Range 20 - 50 °F)				
Heating Speed Tap	Adjust Tap	Low Stage CFM @ .1" to .5" w.c. ESP	High Stage CFM @ .1" to .5" w.c. ESP	Rise
A	Minus (-) Tap	1,215	1,616	25-55
	Nominal	1,350	1,796	
	Plus (+) Tap	1,485	1,975	
B	Minus (-) Tap	1,260	1,676	
	Nominal	1,400	1,862	
	Plus (+) Tap	1,540	2,000*	
C	Minus (-) Tap	1,305	1,736	
	Nominal	1,450	1,929	
	Plus (+) Tap	1,595	2,000*	
D	Minus (-) Tap	1,418	1,885	
	Nominal	1,575	2,000*	
	Plus (+) Tap	1,733	2,000*	

NOTES:

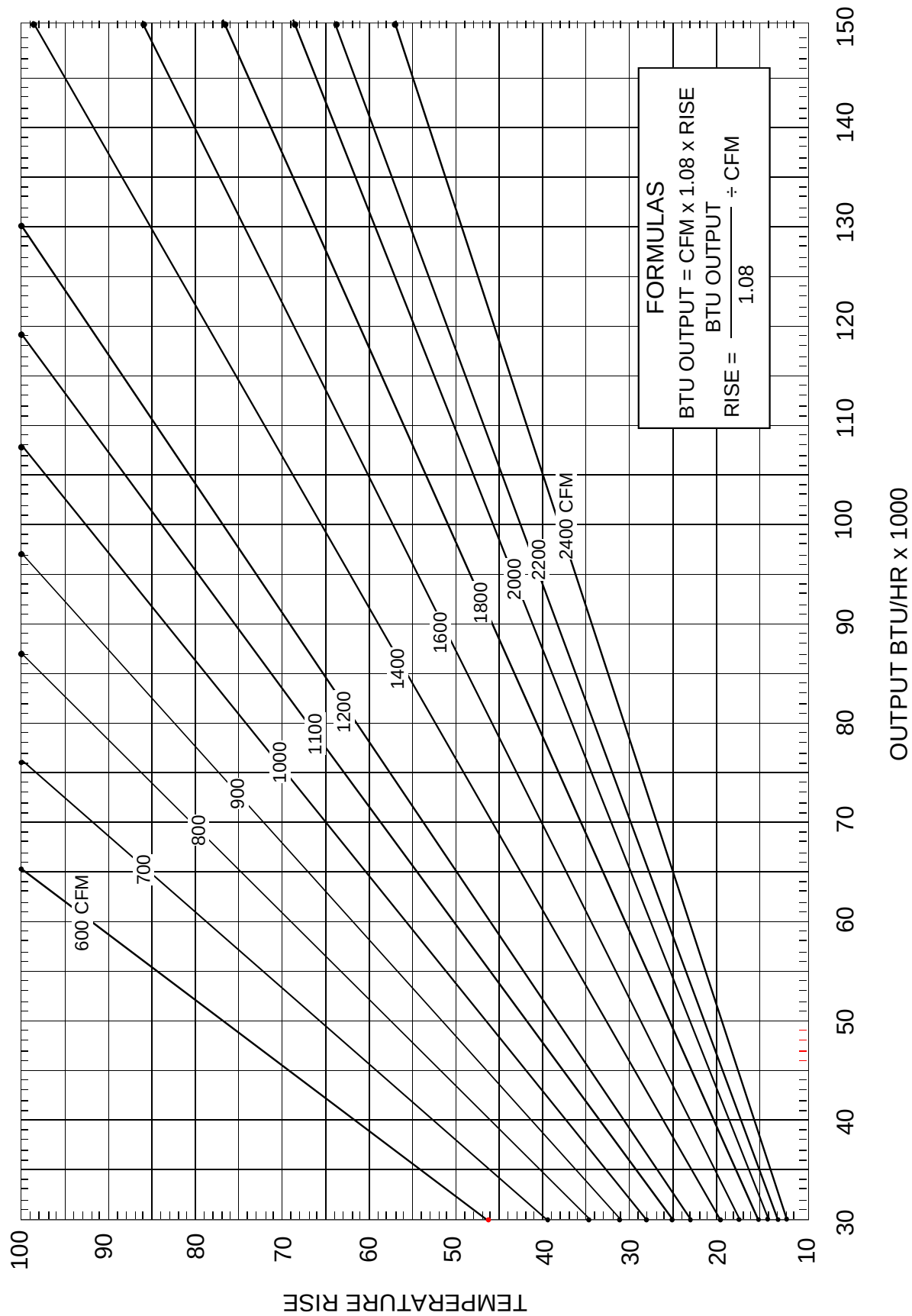
* Motor CFM maximum

** Motor CFM minimum

1. These charts are for furnaces installed at 0' - 4,500'. At higher altitudes, a properly derated unit will have the same temperature rise at a particular CFM, while the ESP at that CFM will be lower.
2. The installation must be adjusted to obtain a temperature rise within the range listed on the furnace nameplate.
3. Do not operate above .5" w.c. ESP in heating mode.
4. Propane gas installations will have a High Stage rise approximately 4° lower than shown in above table.

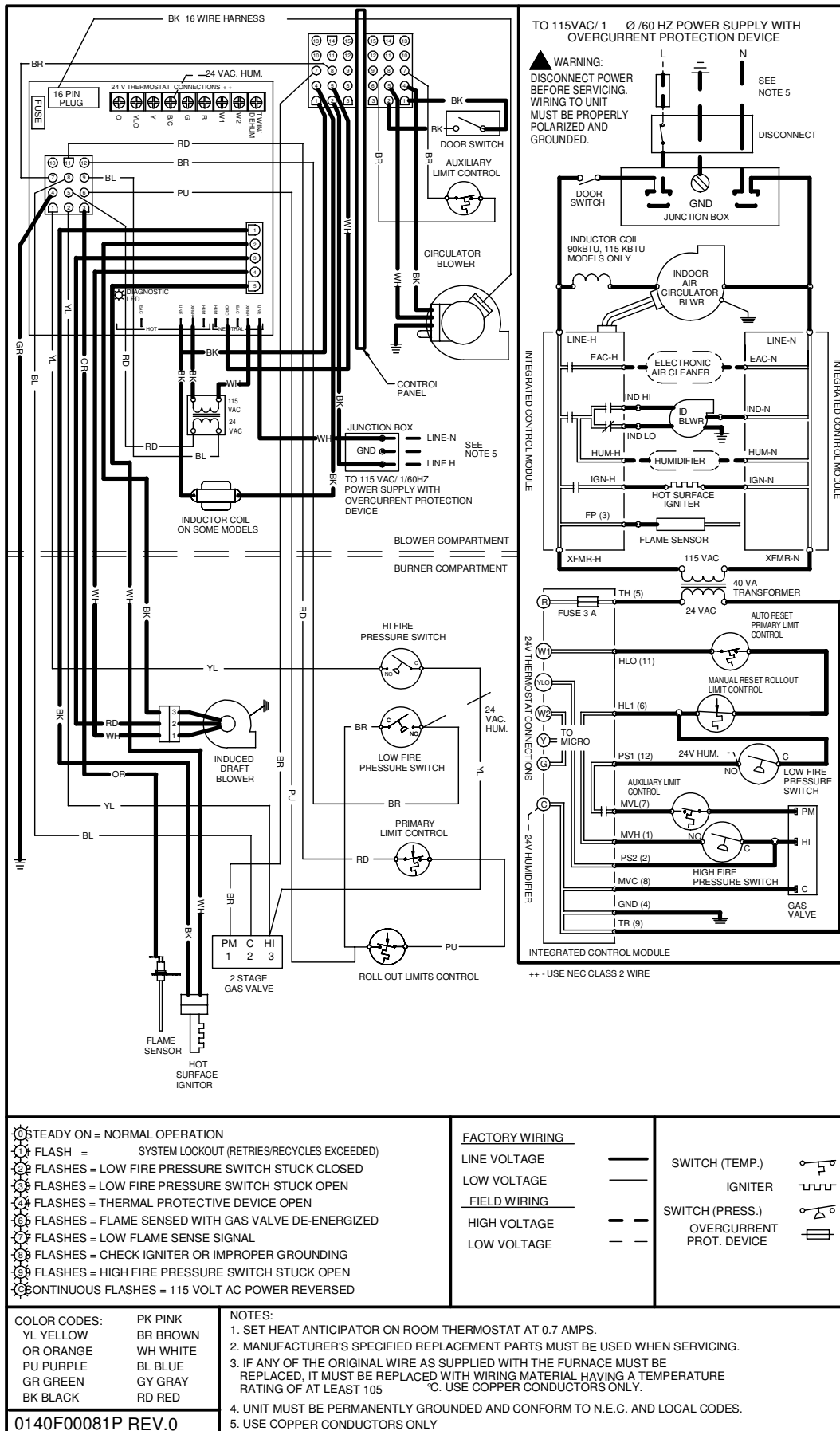
BLOWER PERFORMANCE SPECIFICATIONS

BTU OUTPUT vs TEMPERATURE RISE CHART



HIGH VOLTAGE!
DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

WARNING



- STEADY ON = NORMAL OPERATION
- FLASH = SYSTEM LOCKOUT (RETRIES/RECYCLES EXCEEDED)
- FLASHES = LOW FIRE PRESSURE SWITCH STUCK CLOSED
- FLASHES = LOW FIRE PRESSURE SWITCH STUCK OPEN
- FLASHES = THERMAL PROTECTIVE DEVICE OPEN
- FLASHES = FLAME SENSED WITH GAS VALVE DE-ENERGIZED
- FLASHES = LOW FLAME SENSE SIGNAL
- FLASHES = CHECK IGNITER OR IMPROPER GROUNDING
- FLASHES = HIGH FIRE PRESSURE SWITCH STUCK OPEN
- CONTINUOUS FLASHES = 115 VOLT AC POWER REVERSED

FACTORY WIRING

LINE VOLTAGE

LOW VOLTAGE

FIELD WIRING

HIGH VOLTAGE

LOW VOLTAGE

SWITCH (TEMP.)

IGNITER

SWITCH (PRESS.)

OVERCURRENT

PROT. DEVICE

COLOR CODES:

YL YELLOW	BR BROWN
OR ORANGE	WH WHITE
PU PURPLE	BL BLUE
GR GREEN	GY GRAY
BK BLACK	RD RED

NOTES:

- SET HEAT ANTICIPATOR ON ROOM THERMOSTAT AT 0.7 AMPS.
- MANUFACTURER'S SPECIFIED REPLACEMENT PARTS MUST BE USED WHEN SERVICING.
- IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE FURNACE MUST BE REPLACED, IT MUST BE REPLACED WITH WIRING MATERIAL HAVING A TEMPERATURE RATING OF AT LEAST 105 °C. USE COPPER CONDUCTORS ONLY.
- UNIT MUST BE PERMANENTLY GROUNDED AND CONFORM TO N.E.C. AND LOCAL CODES.
- USE COPPER CONDUCTORS ONLY

0140F00081P REV.0

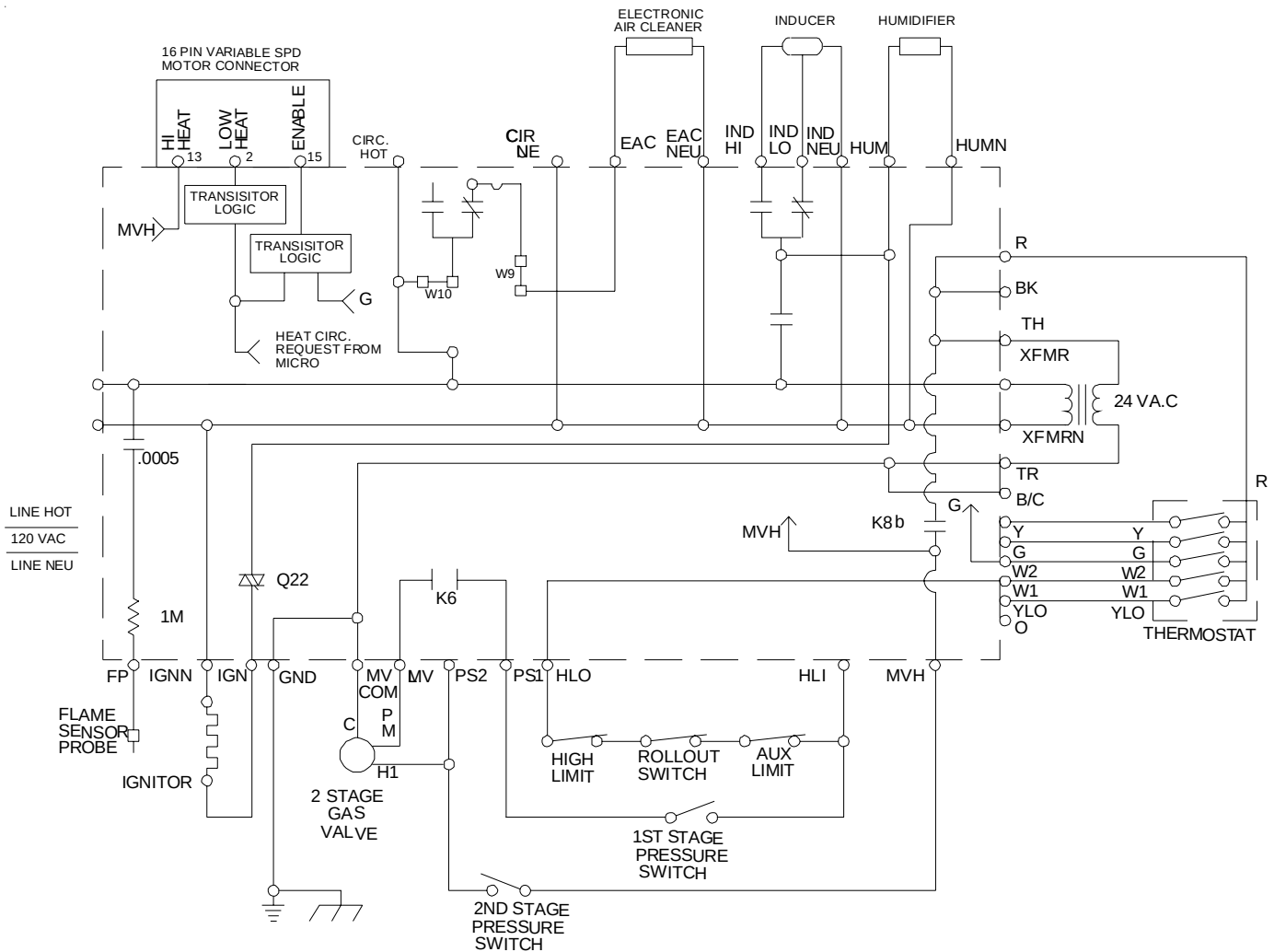
Wiring is subject to change, always refer to the wiring diagram on the unit for the most up-to-date wiring.

SCHEMATICS



WARNING

HIGH VOLTAGE!
DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



TYPICAL SCHEMATIC
ADV8**XA MODEL FURNACES**
WHITE-RODGERS 50V61-289 INTEGRATED IGNITION CONTROL
This schematic is for reference only. Not all wiring is as shown above,
refer to the appropriate wiring diagram for the unit being serviced.