



**Standard Features**

- Heavy-duty MillionAir<sup>®</sup> stainless-steel, dual-diameter tubular heat exchanger
- Stainless-steel secondary heat exchanger
- Durable SureStart<sup>®</sup> Silicon Nitride igniter
- Two-stage gas valve with technology that allows installer to activate the two-stage valve with the flip of a dipswitch
- Self-adjusting feature automatically adjusts to high- or low-stage operation based on outside temperature without an outdoor temperature sensor
- Color-coded low-voltage terminals with provisions for electronic air cleaner and 24-volt humidifiers
- Control board stores last diagnostic codes in memory and outputs the fault history to a flashing red LED
- Low continuous fan speed options offer quiet air circulation
- All models comply with California NOx emissions standards

**Cabinet Features**

- Fully insulated, heavy-gauge steel cabinet with durable baked-enamel finish
- Designed for upflow or horizontal installation
- Airtight solid bottom for side return applications and easy-cut tabs for effortless removal in bottom air inlet applications
- Convenient left/right connection for gas/electric service
- Coil and furnace fit flush for most installation

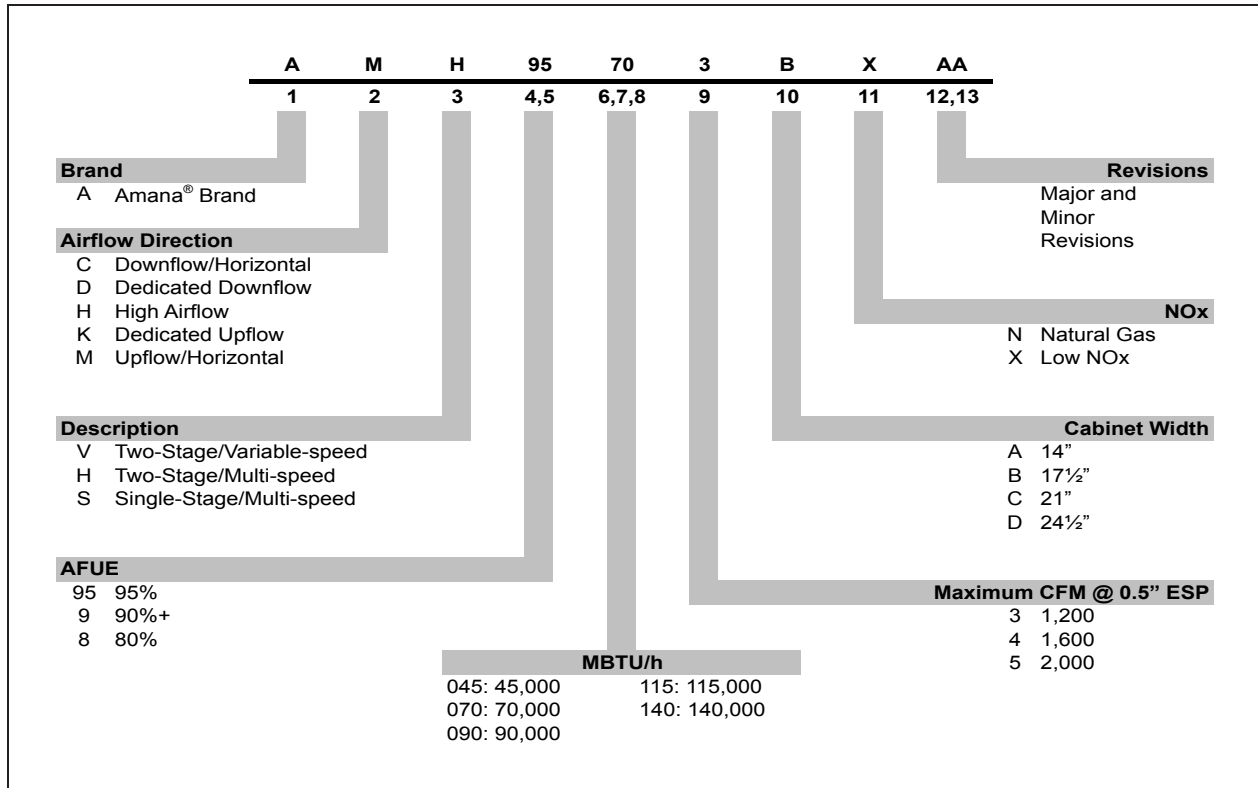
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\* Complete warranty details available from your local dealer or at [www.amana-hac.com](http://www.amana-hac.com). To receive the Lifetime Unit Replacement Limited Warranty (good for as long as you own your home) and 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Québec.

NOMENCLATURE



**SPECIFICATIONS**

	<b>AMH95 0453BXA</b>	<b>AMH95 0703BXA</b>	<b>AMH95 0704CXA</b>	<b>AMH95 0904CXA</b>	<b>AMH95 0905CXA</b>	<b>AMH95 1155DXA</b>
<b>HEATING CAPACITY</b>						
Input <sup>1</sup>	46,000	69,000	69,000	92,000	92,000	115,000
Natural Gas Output <sup>1</sup>	44,200	66,300	66,300	88,400	88,400	110,500
LP Gas Output <sup>1</sup>	39,800	59,700	59,700	79,600	79,600	99,500
AFUE <sup>2</sup>	96.1	96.1	96.1	96.1	96.1	96.1
Available AC @ 0.5" ESP	3	3	4	4	5	5
Temperature Rise Range (°F)	35 - 65	30 - 60	35 - 65	30 - 60	30 - 60	35 - 65
<b>CIRCULATOR BLOWER</b>						
Size (D x W)	10" X 8"	10" X 8"	10" X 10"	10" X 10"	11" X 10"	11" X 10"
Horsepower @ 1750 RPM	½	½	½	½	¾	¾
Speed	4	4	4	4	4	4
Vent Diameter <sup>3</sup>	2"	2"	2"	2"	3"	3"
No. of Burners	2	3	3	4	4	5
Disposable Filter Size (in <sup>2</sup> )	580	580	770	770	960	960
<b>ELECTRICAL DATA</b>						
Min. Circuit Ampacity <sup>4</sup>	9.4	9.4	13.8	13.8	13.2	13.2
Max. Overcurrent Device (amps) <sup>5</sup>	15	15	15	15	15	15
<b>SHIP WEIGHT (LBS)</b>						
	120	123	125	144	146	163

<sup>1</sup> Natural Gas BTU/h. For altitudes above 2,000', reduce input rating 4% for each 1,000' above sea level. Low-fire rate is 75% of high-fire rate

<sup>2</sup> DOE AFUE based upon Isolated Combustion System (ICS)

<sup>3</sup> Vent and combustion air diameters may vary depending upon vent length. Refer to the latest editions of the National Fuel Gas Code NFPA 54/ANSI Z223.1 (in the USA) and the Canada National Standard of Canada, CAN/CSA B149.1 and CAN/CSA B142.2 (in Canada).

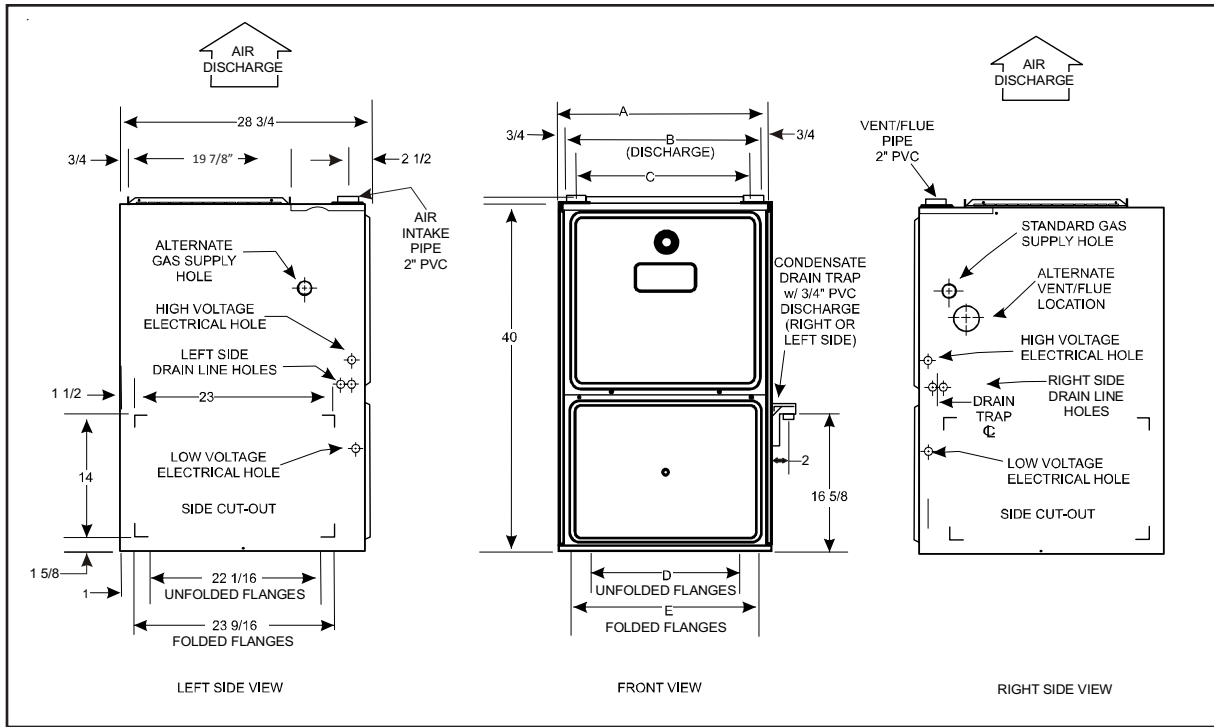
<sup>4</sup> Minimum Circuit Ampacity = (1.25 x Circulator Blower Amps) + ID Blower amps. Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

<sup>5</sup> Maximum Overcurrent Protection Device refers to maximum recommended fuse or circuit breaker size. May use fuses or HACR-type circuit breakers of the same size as noted.

**Notes**

- All furnaces are manufactured for use on 115 VAC, 60 Hz, single-phase electrical supply.
- Gas Service Connection ½" FPT
- Important: Size fuses and wires properly and make electrical connections in accordance with the National Electrical Code and/or all existing local codes.

**DIMENSIONS**



MODEL	A	B	C	D	E
AMH950453BXA	17½"	16"	13⅝"	12⅞"	13⅝"
AMH950703BXA	17½"	16"	13⅝"	12⅞"	13⅝"
AMH950704CXA	21"	19½"	16⅝"	16"	17½"
AMH950904CXA	21"	19½"	16⅝"	16"	17½"
AMH950905CXA	21"	19½"	16⅝"	16"	17½"
AMH951155DXA	24½"	23"	20⅝"	19⅝"	20⅝"

**NOTES:**

- Installer must supply one or two PVC pipes: one for combustion air (optional) and one for the flue outlet (required). Vent pipe must be either 2" or 3" in diameter, depending upon furnace input, number of elbows, length of run, and installation (1 or 2 pipes). The optional combustion air pipe is dependent on installation/code requirements and must be 2" or 3" diameter PVC.
- Line voltage wiring can enter through the right or left side of furnace. Low-voltage wiring can enter through the right or left side of furnace.
- Conversion kits for high-altitude natural gas operation are available. Contact your Amana distributor or dealer for details.
- Installer must supply the following gas line fittings, according to which entrance is used:  
 Left: One 90° street elbow; one 2½" pipe nipple; one 90° elbow; straight pipe; one ground joint union  
 Right: Straight pipe to reach gas valve
- Installations using a bottom return: Failure to unfold flanges will reduce airflow area by approximately 18%. This could result in performance and noise issues.

**MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS**

POSITION	SIDES	REAR	FRONT	BOTTOM	FLUE	TOP
Upflow	0"	0"	1"	C	0"	1"
Horizontal	6"	0"	1"	C	0"	4"

C = If placed on combustible floor, the floor MUST be wood ONLY.

**NOTES**

- For servicing or cleaning, a 24" front clearance is recommended.
- Unit connections (electrical, flue, and drain) may necessitate greater clearances than the minimum clearances listed above.
- In all cases, accessibility clearance must take precedence over clearances from the enclosure where accessibility clearances are greater.
- Approved for line contact in the horizontal position.

# AIRFLOW DATA

## (CFM & TEMPERATURE RISE VS. EXTERNAL STATIC PRESSURE)

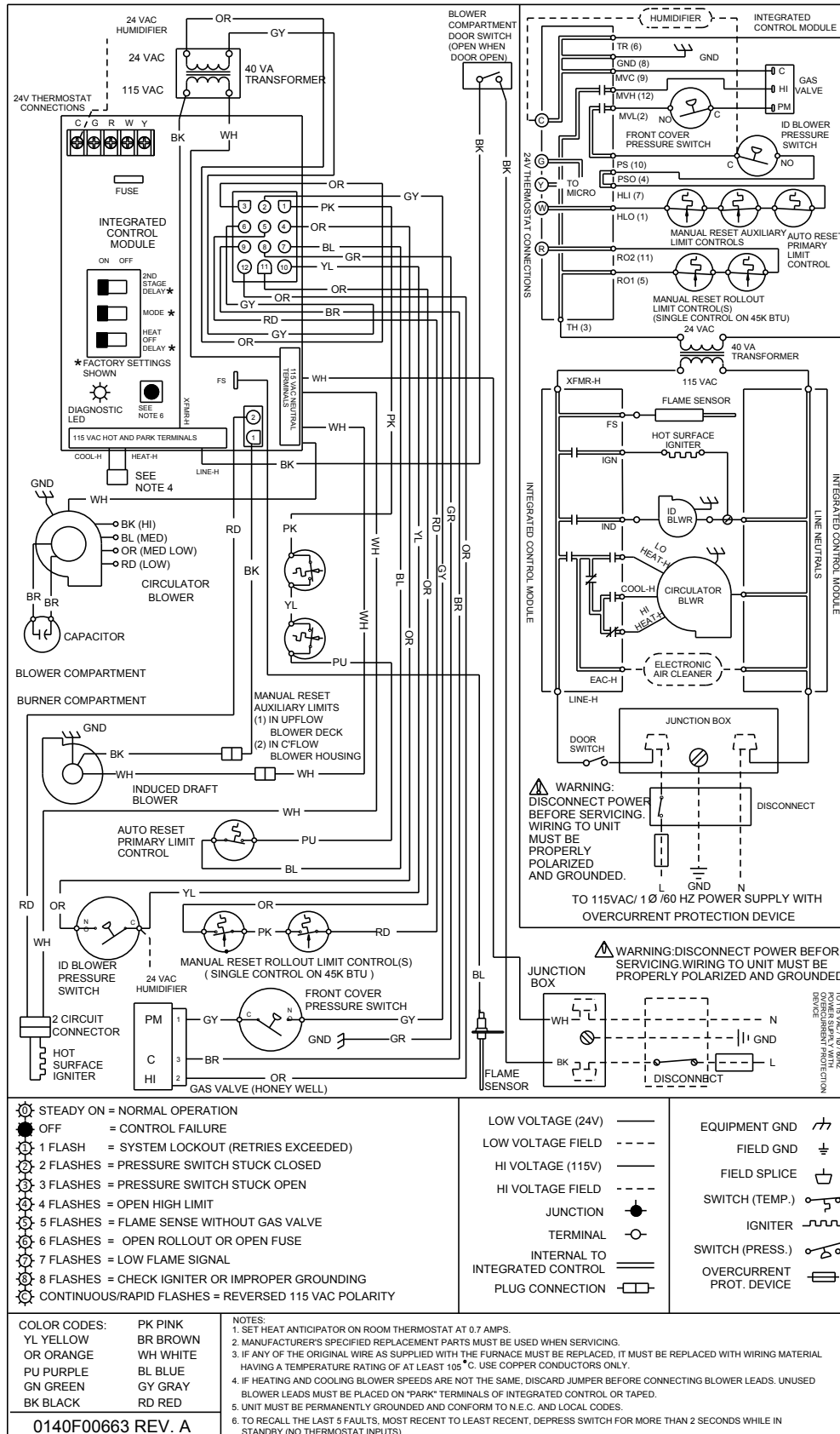
MODEL	MOTOR SPEED	TONS AC <sup>1</sup>	EXTERNAL STATIC PRESSURE, (INCHES WATER COLUMN)												
			0.1		0.2		0.3		0.4		0.5		0.6	0.7	0.8
			CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	CFM	CFM	CFM
AMH95 0453BXA	High	3	1,352	29	1,318	30	1,260	31	1,202	33	1,128	35	1,044	955	853
	Med	2.5	1,214	32	1,172	34	1,123	35	1,064	37	1,012	39	938	859	741
	Med-Lo	2	997	40	994	40	960	41	923	43	884	45	817	741	611
	Low	1.5	757	52	753	52	734	54	704	56	674	59	620	524	438
AMH95 0703BXA	High	3	1,449	41	1,409	42	1,326	45	1,273	47	1,201	49	1,194	1,136	1,018
	Med	2.5	1,192	50	1,172	51	1,141	52	1,094	54	1,046	57	973	904	793
	Med-Lo	2	981	61	962	62	943	63	917	65	888	67	830	764	665
	Low	1.5	750	79	730	81	714	83	692	86	657	90	620	570	502
AMH95 0704CXA	High	4	2,069	29	1,965	30	1,871	32	1,756	34	1,661	36	1,549	1,415	1,275
	Med	3.5	1,752	34	1,724	34	1,667	36	1,603	37	1,488	40	1,402	1,290	1,082
	Med-Lo	3	1,437	41	1,437	41	1,417	42	1,369	43	1,320	45	1,256	1,140	984
	Low	2.5	1,184	50	1,177	50	1,161	51	1,132	52	1,095	54	1,047	928	837
AMH95 0904CXA	High	4	1,970	40	1,874	42	1,757	45	1,667	48	1,566	51	1,431	1,334	1,182
	Med	3.5	1,713	46	1,650	48	1,572	50	1,510	52	1,418	56	1,313	1,211	1,079
	Med-Lo	3	1,439	55	1,412	56	1,370	58	1,327	60	1,260	63	1,166	1,078	956
	Low	2.5	1,183	67	1,155	69	1,122	71	1,108	72	1,062	75	1,011	931	816
AMH95 0905CXA	High	5	2058	39	1997	40	1928	42	1852	43	1777	45	1682	1600	1487
	Med	4	1718	47	1685	48	1632	49	1586	51	1520	53	1458	1369	1281
	Med-Lo	3.5	1502	54	1464	55	1429	56	1380	58	1319	61	1272	1200	1137
	Low	3	1305	62	1277	63	1253	64	1212	66	1175	69	1127	1081	1010
AMH95 1155DXA	High	5	2,134	46	2,103	47	2,029	48	1,941	51	1,906	51	1,818	1,733	1,625
	Med	4	1,678	58	1,643	60	1,643	60	1,577	62	1,527	64	1,489	1,423	1,339
	Med-Lo	3.5	1,453	68	1,440	68	1,426	69	1,363	72	1,349	73	1,314	1,253	1,205
	Low	3	1,259	78	1,239	79	1,220	80	1,181	83	1,159	85	1,118	1,082	1,015

<sup>1</sup> at 0.5" ESP

### NOTES

- CFM in chart is without filter(s). Filters do not ship with this furnace, but must be provided by the installer. If the furnace requires two return filters, this chart assumes both filters are installed.
- All furnaces ship as high-speed cooling and medium-speed heating. Installer must adjust blower cooling & heating speed as needed.
- For most jobs, about 400 CFM per ton when cooling is desirable.
- INSTALLATION IS TO BE ADJUSTED TO OBTAIN TEMPERATURE RISE WITHIN THE RANGE SPECIFIED ON THE RATING PLATE.
- This chart is for information only. For satisfactory operation, external static pressure should not exceed value shown on the rating plate. The shaded area indicates ranges in excess of maximum static pressure allowed when heating.
- The above chart is for U.S. furnaces installed at 0-2000 feet. At higher altitudes, a properly derated unit will have approximately the same temperature rise at a particular CFM, while ESP at the CFM will be lower.

# WIRING DIAGRAMS WITH HONEYWELL VALVE



- ⊕ STEADY ON = NORMAL OPERATION
- ⊖ OFF = CONTROL FAILURE
- ⚡ 1 FLASH = SYSTEM LOCKOUT (RETRIES EXCEEDED)
- ⚡ 2 FLASHES = PRESSURE SWITCH STUCK CLOSED
- ⚡ 3 FLASHES = PRESSURE SWITCH STUCK OPEN
- ⚡ 4 FLASHES = OPEN HIGH LIMIT
- ⚡ 5 FLASHES = FLAME SENSE WITHOUT GAS VALVE
- ⚡ 6 FLASHES = OPEN ROLLOUT OR OPEN FUSE
- ⚡ 7 FLASHES = LOW FLAME SIGNAL
- ⚡ 8 FLASHES = CHECK IGNITER OR IMPROPER GROUNDING
- ⚡ CONTINUOUS/RAPID FLASHES = REVERSED 115 VAC POLARITY

- COLOR CODES:**
- YL YELLOW
  - BR BROWN
  - OR ORANGE
  - WH WHITE
  - PU PURPLE
  - BL BLUE
  - GN GREEN
  - GY GRAY
  - BK BLACK
  - RD RED

- NOTES:**
1. SET HEAT ANTICIPATOR ON ROOM THERMOSTAT AT 0.7 AMPS.
  2. MANUFACTURER'S SPECIFIED REPLACEMENT PARTS MUST BE USED WHEN SERVICING.
  3. 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.
  4. IF HEATING AND COOLING BLOWER SPEEDS ARE NOT THE SAME, DISCARD JUMPER BEFORE CONNECTING BLOWER LEADS. UNUSED BLOWER LEADS MUST BE PLACED ON "PARK" TERMINALS OF INTEGRATED CONTROL OR TAPED.
  5. UNIT MUST BE PERMANENTLY GROUNDED AND CONFORM TO N.E.C. AND LOCAL CODES.
  6. TO RECALL THE LAST 5 FAULTS, MOST RECENT TO LEAST RECENT, DEPRESS SWITCH FOR MORE THAN 2 SECONDS WHILE IN STANDBY (NO THERMOSTAT INPUTS).

- LOW VOLTAGE (24V) ———
- LOW VOLTAGE FIELD - - - - -
- HI VOLTAGE (115V) ———
- HI VOLTAGE FIELD - - - - -
- JUNCTION ●
- TERMINAL ○
- INTERNAL TO INTEGRATED CONTROL ———
- PLUG CONNECTION ———

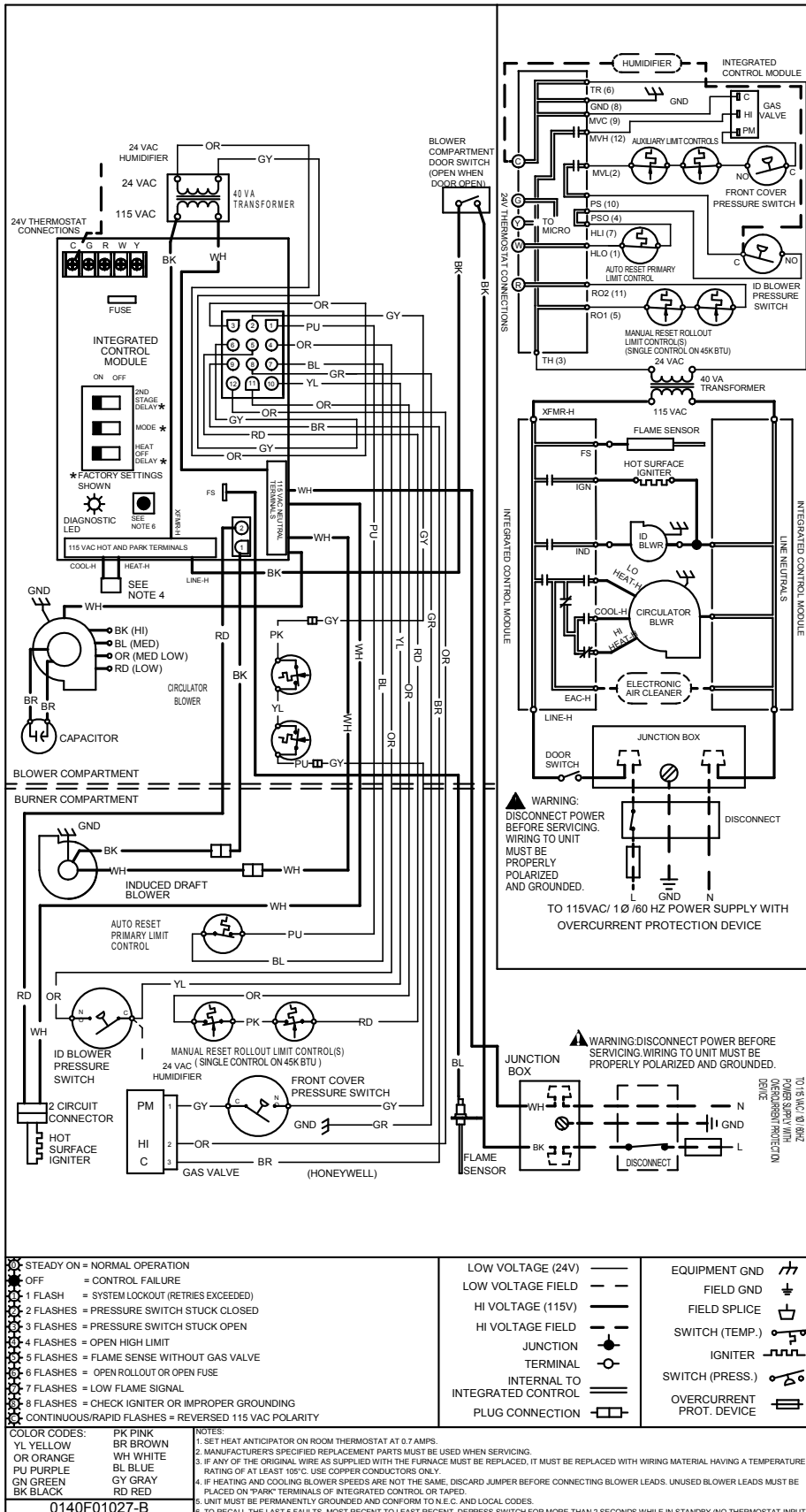
- EQUIPMENT GND
- FIELD GND
- FIELD SPLICE
- SWITCH (TEMP.)
- IGNITER
- SWITCH (PRESS.)
- OVERCURRENT PROT. DEVICE

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**

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

# WIRING DIAGRAMS WITH WHITE-RODGERS VALVE



**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**

Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring.

**ACCESSORIES**

MODEL	DESCRIPTION	AMH95 0453B**	AMH95 0703B**	AMH95 0704C**	AMH95 0904C**	AMH95 0905C**	AMH95 1155D**
LPM-06	LP Conversion Kit (Springs & Orifice)	√	√	√	√	√	√
LPLP03	LP Gas Low Pressure Kit	√	√	√	√	√	√
FTK04	Twinning Kit	√	√	√	√	√	√
ASAS	Electronic Air Cleaners	√	√	√	√	√	√
AMU	Media Air Cleaners	√	√	√	√	√	√
HANG11	High Altitude Natural Gas Kit	1	1	1	1	---	1
HANG12	High Altitude Natural Gas Kit	2	2	2	2	---	2
HALP10	High Altitude LP Gas Kit	3	3	3	3	---	3
HAPS27	High Altitude Pressure Switch Kit	3	3	3	3	---	3
EFR01	External Filter Rack	√	√	√	√	√	√
DCVK-20	Horizontal/Vertical Concentric Vent Kit (2")	√	√	---	---	---	---
DCVK-30	Horizontal/Vertical Concentric Vent Kit (3")	√	√	√	√	√	√
017K00000S	Flush-mount Vent Kit	√	√	√	√	√	√

**NOTES**

- √ Indicates available for this model
- 1 Indicates 7,001' to 9,000' altitude
- 2 Indicates 9,001' to 11,000' altitude
- 3 Indicates 7,001' to 11,000' altitude
- All installations above 7,000' require a pressure switch change.
- For installation in Canada, gas furnaces are certified only to 4,500'.