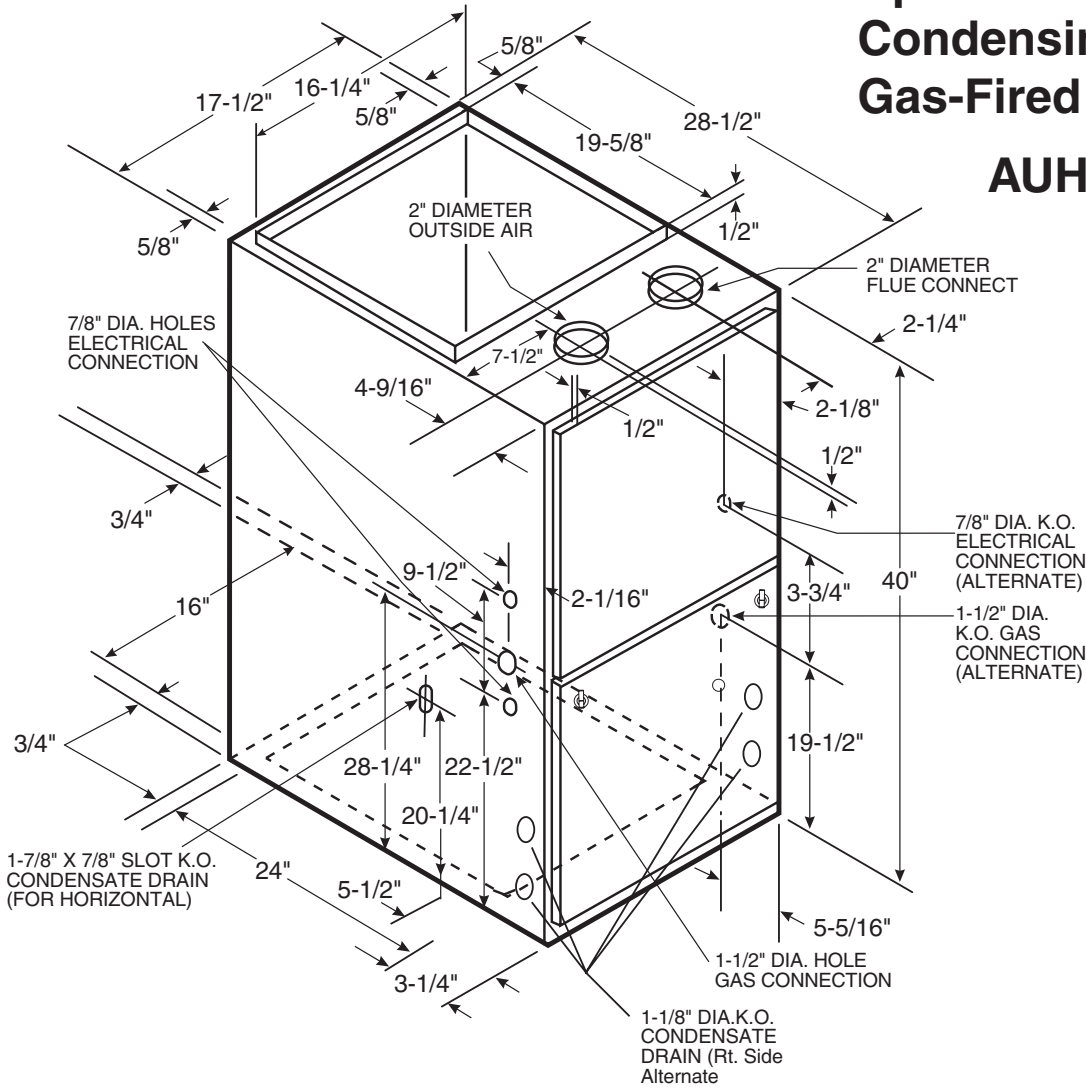


TAG: \_\_\_\_\_

**SPECIFICATION**

**Upflow/ Horizontal  
Condensing, Direct Vent  
Gas-Fired Furnace**

**AUH2B080A942VA**



UH2 FURNACE AIRFLOW (CFM) VS. EXTERNAL STATIC PRESSURE (in. w.c.)										
MODEL	SPEED TAP	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90
*UH2B080A942VA	4- HIGH - Black	1646	1611	1573	1530	1477	1421	1360	1289	1200
	3- MED.-HIGH - Blue**	1366	1356	1337	1311	1280	1243	1197	1139	1060
	2- MED.-LOW - Yellow	1175	1159	1145	1130	1108	1081	1045	993	929
	1- LOW - Red	1004	994	997	982	963	943	907	866	824

\* - First letter may be "A" or "T"  
\*\* = Factory Set Heat Speed Tap Setting

UH2 CFM VS. TEMPERATURE RISE																
MODEL	Cubic Feet Per Minute (CFM)															
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
*UH2B080A942VA							62	57	53	50	48	46	44			

\* - First letter may be "A" or "T"

## Product Specifications <sup>①</sup>

<b>MODEL</b>	*UH2B080A942VA
<b>TYPE</b>	Upflow/Horizontal
<b>RATINGS <sup>②</sup></b>	
1st Stage Input BTUH	52,000
1st Stage Capacity BTUH (ICS) <sup>③</sup>	49,920
2nd Stage Input BTUH	80,000
2nd Stage Capacity BTUH (ICS) <sup>③</sup>	76,800
Temp. rise (Min.-Max.) °F.	35 - 65
AFUE	96
<b>BLOWER DRIVE</b>	
Diameter - Width (In.)	DIRECT 10 x 8
No. Used	1
Speeds (No.)	4
CFM vs. in. w.g.	See Fan Performance Table
Motor HP	1/3
R.P.M.	1075
Volts/Ph/Hz	115/1/60
<b>COMBUSTION FAN - Type</b>	
Drive - No. Speeds	Centrifugal Direct - Variable
Motor HP - R.P.M.	1/50 - 5000
Volts/Ph/Hz	115/3/60
FLA	1.0
<b>FILTER — Furnished?</b>	
Type Recommended	No High Velocity
Hi Vel. (No.-Size-Thk.)	1 - 17 x 25 - 1 in.

<b>VENT Pipe Diameter Min. (in.)</b>	2 Round
<b>HEAT EXCHANGER</b>	
Type - Fired	Aluminized Steel - Type I
-Unfired	
Gauge (Fired)	20
<b>ORIFICES — Main</b>	
Nat. Gas Qty. — Drill Size	4 — 45
L.P. Gas Qty. — Drill Size	4 — 56
<b>GAS VALVE</b>	
	Redundant - Two Stage
<b>PILOT SAFETY DEVICE</b>	
Type	Hot Surface Ignition
<b>BURNERS — Type</b>	
Number	Multiport Inshot 4
<b>POWER CONN. — V/Ph/Hz <sup>④</sup></b>	
Ampacity (In Amps)	115/1/60 10.2
Max. Overcurrent Protection (Amps)	15
<b>PIPE CONN. SIZE (IN.)</b>	
	1/2
<b>DIMENSIONS</b>	
Crated (In.)	H x W x D 41-3/4 x 19-1/2 x 30-1/2
<b>WEIGHT</b>	
Shipping (Lbs.)/Net (Lbs.)	158 / 156

\* May be "A" or "T"

① Central Furnace heating designs are certified to ANSI Z21.47 / CSA 2.3.

② 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.

For Canadian applications, above input ratings (BTUH) are up to 4,500 feet, derate 4% per 1,000 feet for elevations above 4,500 feet above sea level.

③ Based on U.S. government standard tests.

④ The above wiring specifications are in accordance with National Electrical Code; however, installations must comply with local codes.

## Mechanical Specifications

**NATURAL GAS MODELS** - Central Heating furnace designs are certified to ANSI Z21.47 / CSA 2.3 for both natural and L.P. gas. Limit setting and rating data were established and approved under standard rating conditions using American National Standards Institute standards.

**SAFE OPERATION** - The Integrated System Control has solid state devices, which continuously monitor for presence of flame, when the system is in the heating mode of operation. Slow opening, dual solenoid combination gas valve and regulator provide extra safety and quieter operation.

**QUICK HEATING**— Durable, cycle tested, heavy gauge **aluminized steel heat exchanger and stainless steel secondary heat exchanger** quickly transfer over 90% of the heat to provide warm conditioned air to the structure. **Low energy power vent blower**, to increase efficiency and provide a positive discharge of gas fumes to the outside as it draws outdoor air in for sealed combustion, which means it uses no indoor air for combustion.

**BURNERS** - Multiport Inshot burners will give years of quiet and efficient service. All models can be converted to **L.P. gas** without changing burners.

**INTEGRATED SYSTEM 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. The built-in, selectable "Cooling Fan Off" feature provides time-delay capability like a BAY24X045 Time-Delay Kit for cooling operation. Also contains connection points for E.A.C./humidifier.

### AIR DELIVERY

The four speed, direct drive blower motor, has sufficient airflow for most heating and cooling requirements, will switch from heating to cooling speeds on demand from room thermostat. The blower door safety switch will prevent or terminate furnace operation when the blower door is removed. (Fan relay and 35VA control transformer is standard).

### SECONDARY HEAT EXCHANGER

The furnace has a special type 29-4C™ stainless steel secondary heat exchanger to reclaim heat from flue gases which would normally be lost instead.

### STYLING - Heavy gauge steel and "wrap-around" cabinet construction

is used in the cabinet with baked-on enamel finish for strength and beauty. The heat exchanger section of the cabinet is completely lined with foil faced fiberglass insulation. This results in quiet and efficient operation due to the excellent acoustical and insulating qualities of fiberglass. Built-in bottom pan and alternate bottom, left or right side return air connection provision.

### FEATURES AND GENERAL OPERATION

The High Efficiency Gas Furnaces employs a Silicon Nitride Hot Surface Ignition system, which eliminates the waste of a constant burning pilot. They are convertible for HORIZONTAL use by rotating the unit to its left side. The integrated system control lights the main burners upon a demand for heat from the room thermostat. Complete front service access.

- Low energy power venter
- Vent proving pressure switch.

Since American Standard Heating & Air Conditioning has a policy of continuous product and product data improvement, it reserves the right to change specifications and design without notice.

Technical Literature - Printed in U.S.A.

American Standard  
Heating & Air Conditioning  
6200 Troup Highway  
Tyler, TX 75707



Library	Unitary
Product Section	Furnaces
Product	Furnace
Model	AUH2
Literature Type	Submittal
Sequence	-
Date	09/12
File No.	AUH2B080-PSC-SPEC-1B
Supersedes	AUH2B080-PSC-SPEC-1A