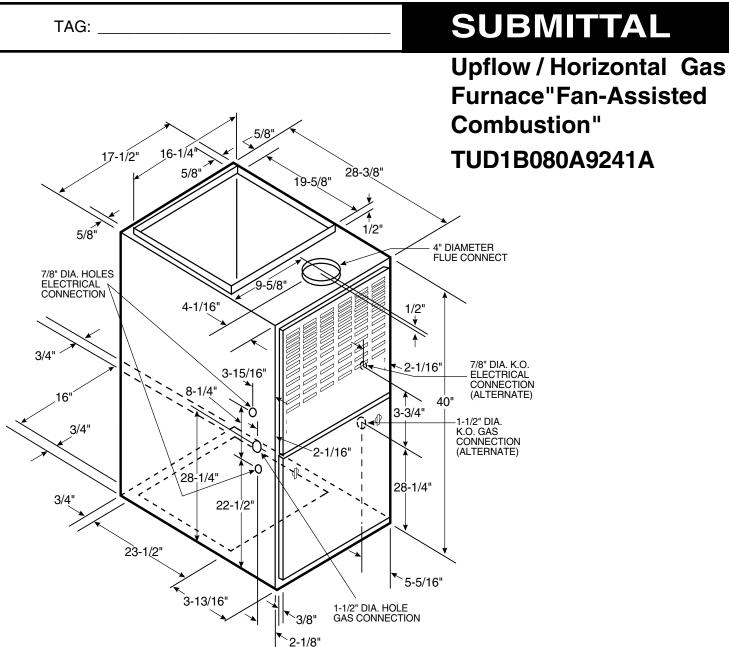


## TUD1B080-SUB-1



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
TUD1B080A9241A	4 - HIGH - Black 3 - MEDHIGH - Blue 2 - MEDLOW - Yellow 1 - LOW - Red	1115 919 772 643	1094 912 767 655	1060 891 750 648	1014 857 722 622	956 809 681 577	886 747 629 512	803 671 565 428	708 582 489 325	600 478 401 203

CFM VS. TEMPERATURE RISE						
MODEL	CFM (CUBIC FEET PER MINUTE)					
MODEL	800	900	1000	1100		
TUD1B080A9241A	74	66	59	54		

## General Data 🛛

ТҮРЕ	Upflow / Horizontal	VENT COLLAR — Size (in.)	4 Round	
RATINGS ②		HEAT EXCHANGER		
Input BTUH	80,000	Type-Fired	Alum. Steel	
Capacity BTUH (ICS) 3	64,000	-Unfired		
AFUE	80.0	Gauge (Fired)	20	
Temp. rise (MinMax.) °F.	50 - 80	ORIFICES — Main		
BLOWER DRIVE	DIRECT	Nat.Gas. Qty. — Drill Size	4 — 45	
Diameter-Width (In.)	9 x 7	L.P. Gas Qty. — Drill Size	4 — 56	
No. Used	1	GAS VALVE	Redundant - Single Stage	
Speeds (No.)	4	PILOT SAFETY DEVICE		
CFM vs. in. w.g.	See Fan Performance	Туре	Hot Surface Ignition	
Motor HP	1/5	BURNERS — Type	Multiport Inshot	
R.P.M.	1080	Number	4	
Volts/Ph/Hz	115/1/60	POWER CONN. — V/Ph/Hz ④	115/1/60	
COMBUSTION FAN - Type	Centrifugal	Ampacity (In Amps)	5.4	
Drive - No. Speeds	Direct - 1	Max. Overcurrent Protection (amps)	15	
Motor HP - RPM	1/50 - 3180	PIPE CONN. SIZE (IN.)	1/2	
Volts/Ph/Hz	115/1/60	DIMENSIONS	H x W x D	
F.L. Amps	1.09	Crated (In.)	41- 3/4 x 19-1/2 x 30-1/2	
FILTER — Furnished?	No	Uncrated (In.)	40 x 17-1/2 x 28	
Type Recommended	High Velocity	WEIGHT		
Hi Vel. (NoSize-Thk.)	1 - 17x25 - 1in.	Shipping (Lbs.) / Net (Lbs)	139 / 129	

 $\odot$  Central Furnace heating designs are certified by the American Gas Association Inc. Laboratories.

2 Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet; Ratings should be reduced at the rate of 4% for each 1000 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 by the American Gas Association 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. Dual solenoid combination gas valve and regulator provide extra safety.

QUICK HEATING— Durable, cycle tested, heavy gauge 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 discharge of gas fumes to the outside, allows common venting with hot water heater. **BURNERS** — Multi-port, in-shot 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.

**AIR DELIVERY** — The multispeed, directdrive blower motor, with sufficient airflow range 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). **STYLING** — Heavy gauge steel and "wraparound" 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.

**FEATURES AND GENERAL OPERA-TION** — These High Efficiency Gas Furnaces employ a Hot Surface Ignition system, which eliminates the waste of a constantly burning pilot. The integrated system control lights the main burners upon a demand for heat from the room thermostat. Complete front service access.

a. Low energy power venter.b. Vent proving differential switch.

Since Trane 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.

Trane 6200 Troup Highway Tyler, TX 75707 www.trane.com



Library	-
Product Section	-
Product	Furnace
Model	TUD1
Literature Type	Submittal
Sequence	-
Date	2/08
File No.	TUD1B080-SUB-1
Supersedes	TUD1B080A9241A