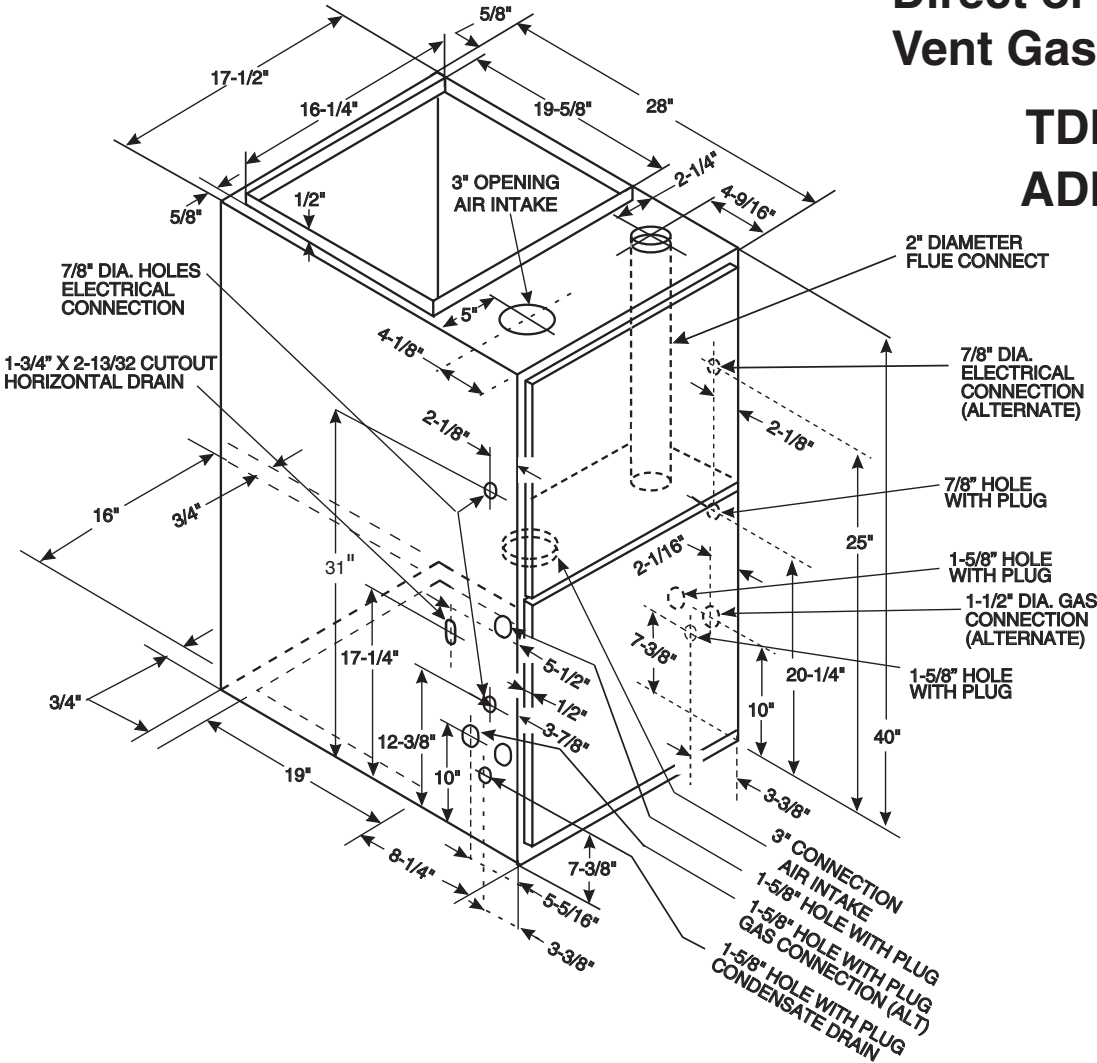


TAG: _____

SUBMITTAL

Downflow/Horizontal Direct or Non-Direct Vent Gas Furnace

TDH1B040A9241A
ADH1B040A9241A



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
*DH1B040A9241A	4 - HIGH - Black	998	965	922	870	807	735	653	561	459
	3 - MED.-HIGH - Blue	856	832	797	751	695	628	550	462	363
	2 - MED.-LOW - Yellow	753	728	694	650	596	533	460	378	286
	1 - LOW - Red	647	617	581	538	490	435	375	308	235

*= First letter may be "A" or "T"

CFM VS. TEMPERATURE RISE											
MODEL	Cubic Feet Per Minute (CFM)										
	600	700	800	900	1000	1100	1200	1300	1400	1500	
*DH1B040A9241A	59	50	44	39	35						

*= First letter may be "A" or "T"

General Data ①

TYPE	Downflow/Horizontal	VENT — Size (in.)	2 Round
RATINGS ②		HEAT EXCHANGER	
Input BTUH	40,000	Type-Fired	Alum. Steel
Capacity BTUH (ICS) ③	38,000	-Unfired	
AFUE	95.0	Gauge (Fired)	20
Temp. rise (Min.-Max.) °F.	30 - 60	ORIFICES — Main	
BLOWER DRIVE	DIRECT	Nat. Gas. Qty. — Drill Size	2 — 45
Diameter-Width (In.)	10 x 7	L.P. Gas Qty. — Drill Size	2 — 56
No. Used	1	GAS VALVE	Redundant-Single Stage
Speeds (No.)	4	PILOT SAFETY DEVICE	
CFM vs. in. w.g.	See Fan Performance	Type	Hot Surface Ignition
Motor HP	1/5	BURNERS — Type	Multiport Inshot
R.P.M.	1080	Number	2
Volts/Ph/Hz	115/1/60	POWER CONN. — V/Ph/Hz ④	115/1/60
COMBUSTION FAN - Type	Centrifugal	Ampacity (In Amps)	4.8
Drive - No. Speeds	Direct - 1	Max. Overcurrent Protection (amps)	15
Motor HP - RPM	1/55 - 3000	PIPE CONN. SIZE (IN.)	1/2
Volts/Ph/Hz	115/1/60	DIMENSIONS	H x W x D
F.L. Amps	1.14	Crated (In.)	41-3/4 x 19-1/2 x 30-1/2
FILTER — Furnished?	No	Uncrated (In.)	40 x 17-1/2 x 28-1/2
Type Recommended	High Velocity	WEIGHT	
Hi Vel. (No.-Size-Thk.)	2 - 14 x 20 - 1in.	Shipping (Lbs.)/Net (Lbs)	145 / 135

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

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 a positive 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, direct-drive 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 OPERATION — 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 Ingersoll Rand 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.

Ingersoll Rand
6200 Troup Highway
Tyler, TX 75707



Literature Order Number	TDH1B040-SUB-1B
File Number	TDH1B040-SUB-1B
Supersedes	TDH1B040-SUB-1A
Date	04/15