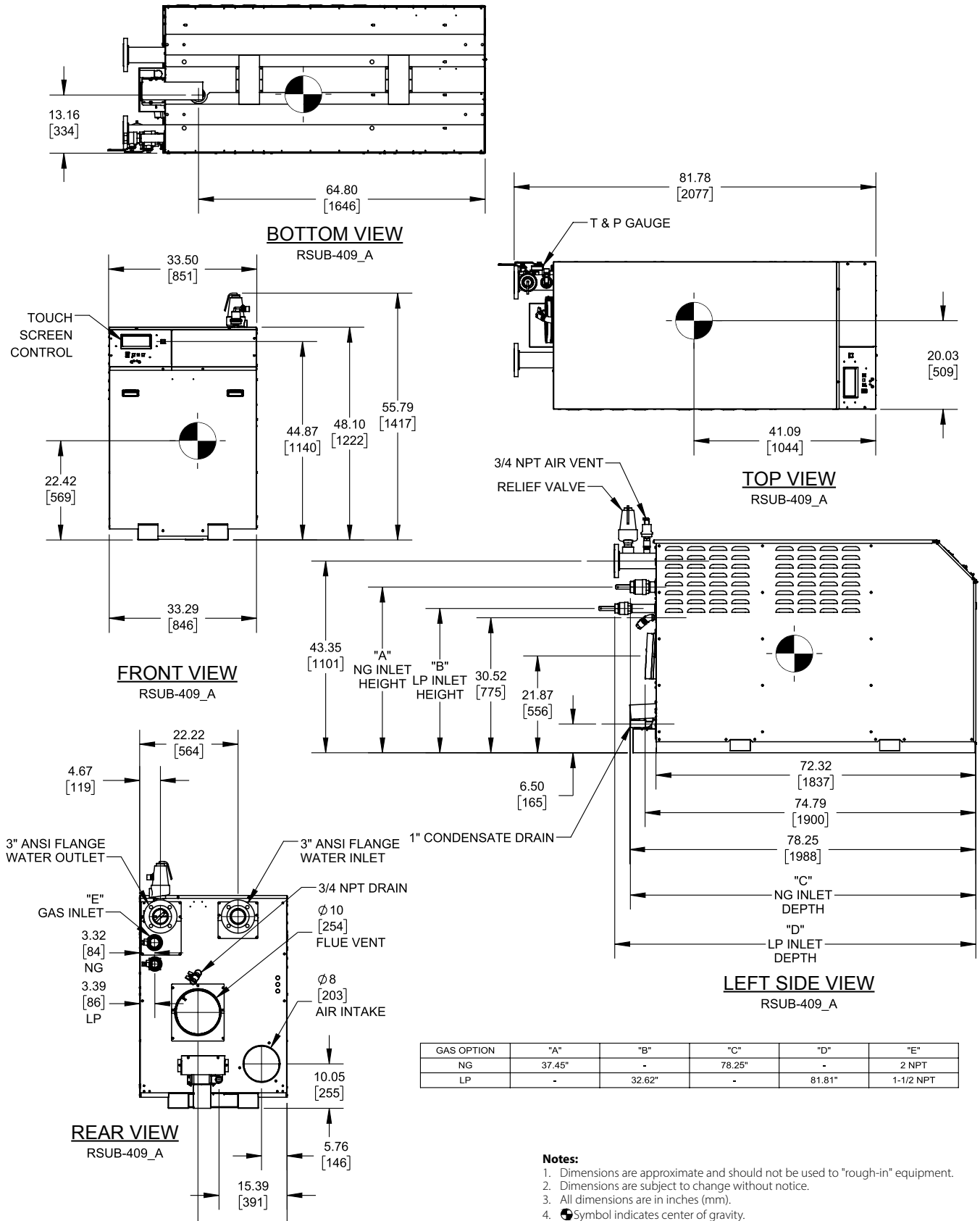


TORUS 3001 DUAL FUEL

Category II or Category IV Appliance

(see Installation and Operation Manual for venting information)

INDOOR UNIT

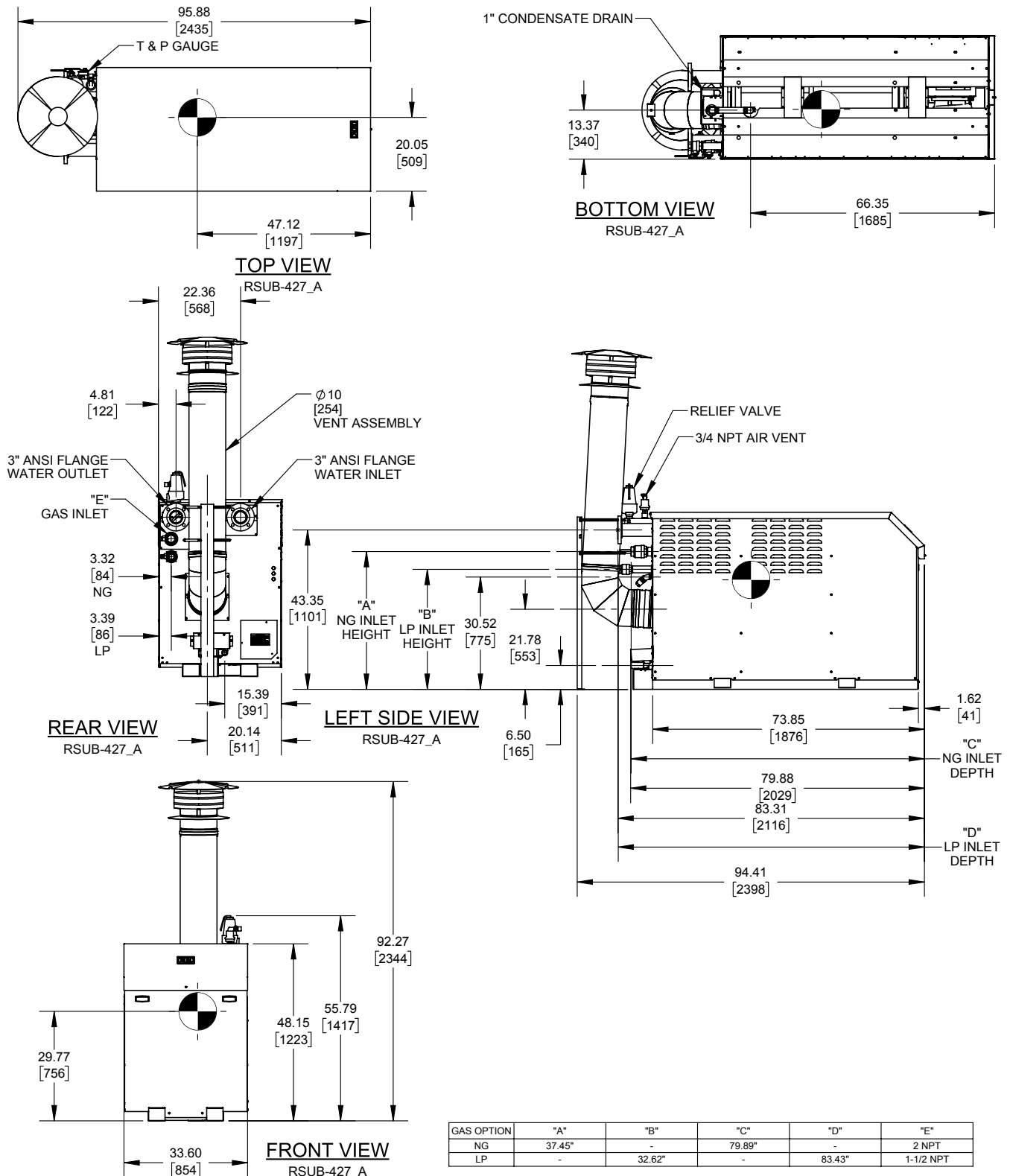


TORUS 3001 DUAL FUEL

Category II or Category IV Appliance

(see Installation and Operation Manual for venting information)

OUTDOOR UNIT



Notes:

1. Dimensions are approximate and should not be used to "rough-in" equipment.
2. Dimensions are subject to change without notice.
3. All dimensions are in inches (mm).
4. ● Symbol indicates center of gravity.

BOILER CERTIFIED RATINGS & CAPACITIES

Fuel Type	Natural/Propane Gas	Boiler FLA	12*
Input BTU/hr.	3,000,000/ 879 kW	Boiler HP	86.2
Output BTU/hr.	2,886,000/ 846 kW	Min. Gas Pressure Required	4"W.C.
Electrical Requirements	208-230 VAC/60 Hz/3PH	Max. Gas Pressure Allowed	14" W.C.
		Operating Weight	1565 lbs/710 kg

BOILER TRIM & CONTROLS

Main Gas Valve	Dungs MBC	Air Switch	Huba
Firing Valve	2" Apollo	Flow Switch	SIKA
Ignition Control	Fenwal	Blocked Flue Switch	Cleveland NS2
Operating Control	HeatNet®	Blower Motor	Ametek
High Limit	Jumo	L.W.C.O.	Taco
Main Ball Valve	2" Apollo	Relief Valve (WB)	1-1/4" x 1-1/2" set @ 50 psi
Pump contactor strongly recommended for water heater applications.		Relief Valve (WW)	1-1/2" x 1-1/2" set @ 125 psi

A.S.M.E.

ASME Sect IV Fire Side Htg Surface	188.5 Sq. Ft. /17.5 Sq. M.	Design Data	Max. 160 psig & 210°F
		Water Volume	19.8 gal. /75.0 Liters
ASME Sect IV Water Side Htg Surface	175.0 Sq. Ft. / 16.3 Sq. M.	pH Level	6.5-8.5

* Add circulator amps.

BOILER TEMPERATURE RISE / PRESSURE DROP (Based on Full Input)

20°F / 11.1°C				25°F / 13.9 °C				30°F / 16.7°C				35°F / 19.5°C				40°F / 22.2°C			
Flow Rate		Pressure Drop		Flow Rate		Pressure Drop		Flow Rate		Pressure Drop		Flow Rate		Pressure Drop		Flow Rate		Pressure Drop	
GPM	L/s	Ft	kPa	GPM	L/s	Ft	kPa	GPM	L/s	Ft	kPa	GPM	L/s	Ft	kPa	GPM	L/s	Ft	kPa
288.7	18.2	31.0	92.6	231.0	14.6	19.8	59.2	192.5	12.1	13.7	41.0	165.0	10.4	10.1	30.1	144.4	9.1	7.7	23.1
Flow GPM (Boiler)				Temp. Rise (°F) (Boiler**)				Vent Length (Equiv. Ft.)				Air Inlet Length (Equiv. Ft.)							
Min		Max		Min		Max		Min		Max		Min		Max					
144.4		288.7		20		40		6		100		0		100					

** Min/Max delta t reflects boiler operation at full input. For applications requiring operation above/below these parameters please consult factory.

WATER HEATER HOURLY RECOVERY CAPACITY (GPH & LPH)

40°F	22°C	60°F	33°C	80°F	44°C	100°F	56°C	120°F	67°C	140°F	78°C
8806	33285	5870	22190	4403	16642	3522	13314	2935	11095	2516	9510

Water Heater Min Flow Rates

Normal (4 to 12) gpg				Hard (12 to 15) gpg			
Flow Rate		Pressure Drop		Flow Rate		Pressure Drop	
gpm	L/s	Ft	kPa	gpm	L/s	Ft	kPa
233.3	14.7	20.2	60.4	319.2	20.1	37.9	113.3

REP FIRM	_____	TORUS 3001 DUAL FUEL Category II or Category IV Appliance (see Installation and Operation Manual for venting information)  RELIABLE. BOLD. INNOVATIVE. A Division of Mestek, Inc. Westfield, MA 01085 (833) 265-5371
SUBMITTED BY	_____	
JOB NAME	_____	
ARCHITECT	_____	
ENGINEER	_____	
CONTRACTOR	_____	
DATE	_____	