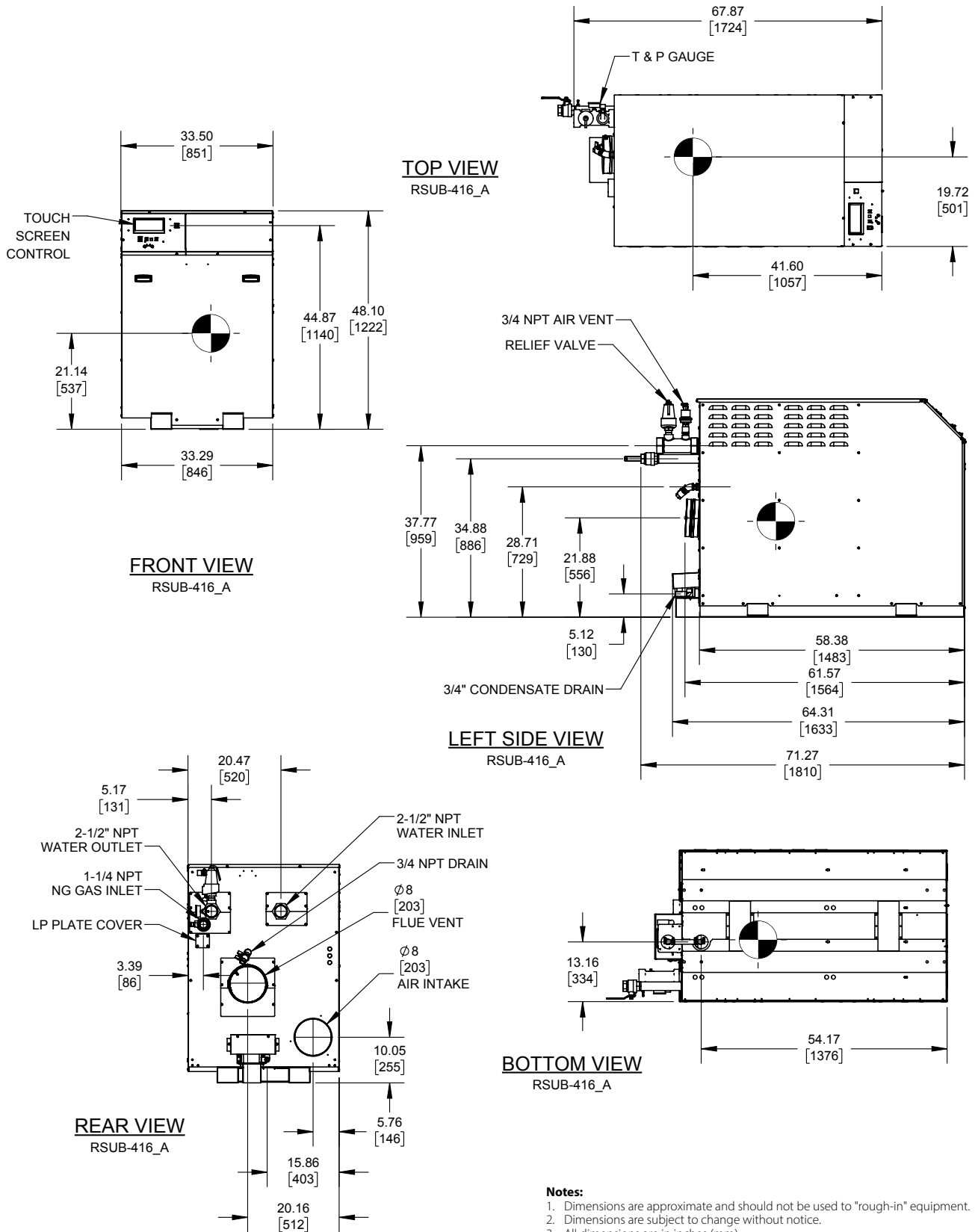


TORUS 1501

Category II or Category IV Appliance

(see Installation and Operation Manual for venting information)

INDOOR UNIT

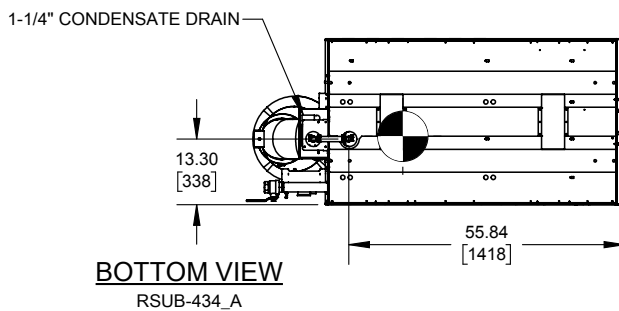
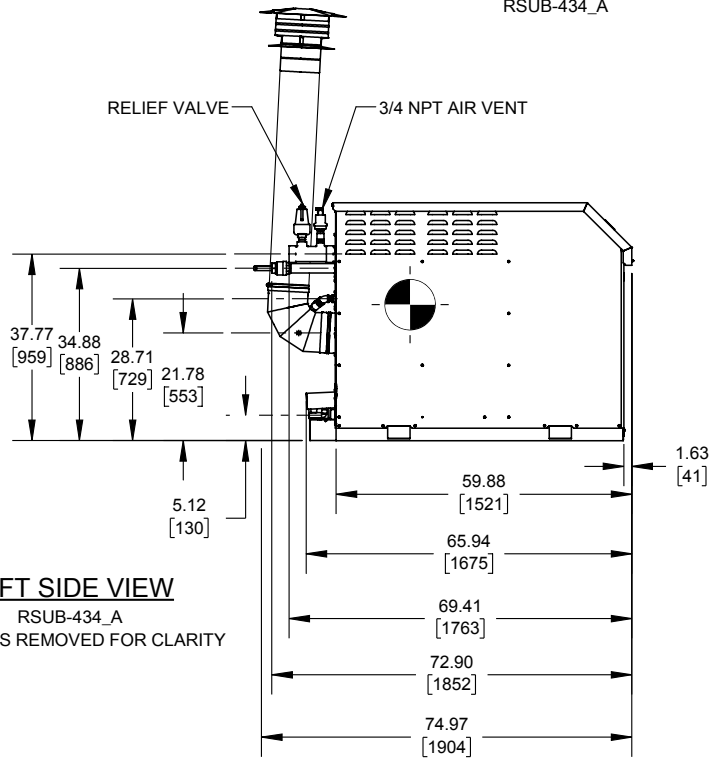
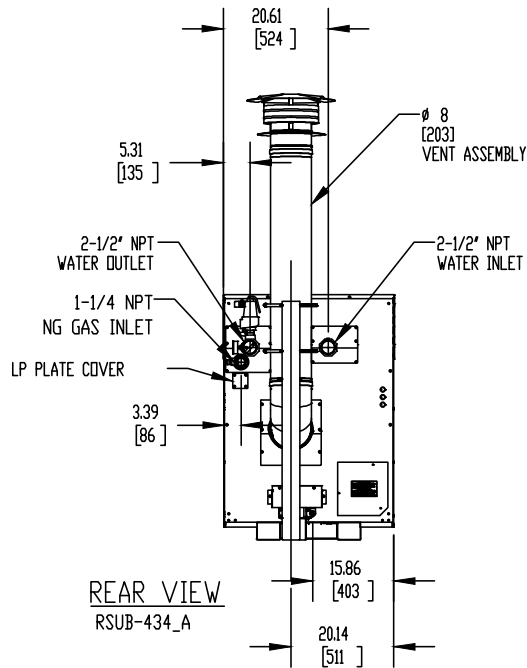
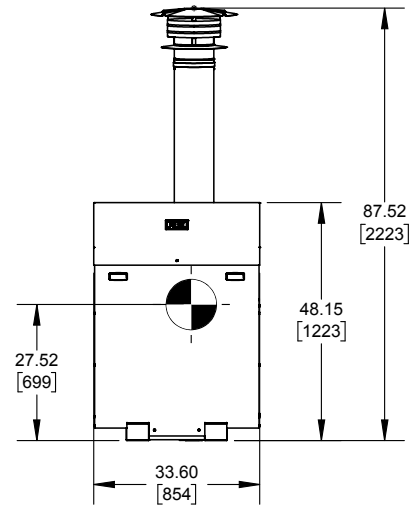
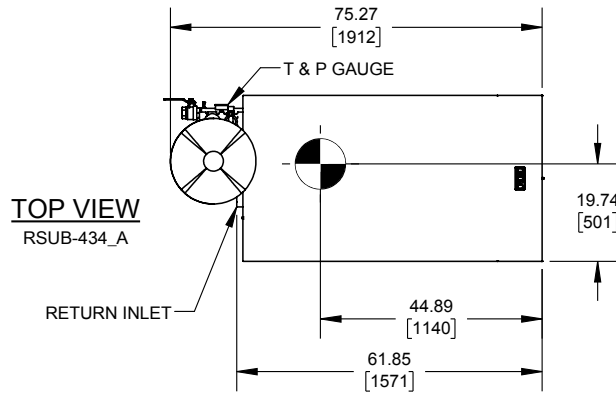


TORUS 1501

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	14*
Input BTU/hr.	1,500,000/440 kW	Boiler HP	43.9
Output BTU/hr.	1,470,000/430 kW	Min. Gas Pressure Required	4"W.C.
Electrical Requirements	120 VAC/60 Hz/1PH	Max. Gas Pressure Allowed	14" W.C.
		Operating Weight	980 lbs /445 kg

BOILER TRIM & CONTROLS

Main Gas Valve	Dungs MBC	Air Switch	Huba
Firing Valve	1-1/4" 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	1-1/4" Apollo	Relief Valve (WB)	1" x 1-1/4" set @ 50 psi
Pump contactor strongly recommended for water heater applications.		Relief Valve (WW)	1" x 1" set @ 125 psi

A.S.M.E.

ASME Sect IV Fire Side Htg Surface	98.6 Sq. Ft. / 9.16 Sq. M.	Design Data	Max. 160 psig & 210°F
		Water Volume	10.5 gal. / 39.7 Liters
ASME Sect IV Water Side Htg Surface	89.33 Sq. Ft. / 8.30 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
147.1	9.3	35.5	106.2	117.6	7.4	22.7	68.0	98.0	6.2	15.8	47.2	84.0	5.3	11.6	34.7	73.5	4.6	8.9	26.6
Flow GPM (Boiler)				Temp. Rise (°F) (Boiler**)				Vent Length (Equiv. Ft.)				Air Inlet Length (Equiv. Ft.)							
Min		Max		Min		Max		Min		Max		Min		Max					
73.5		147.1		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
4466	16881	2977	11254	2233	8440	1786	6752	1489	5627	1276	4823

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
100.0	6.3	16.4	49.0	110.0	6.9	19.9	59.5

REP FIRM	_____	TORUS 1501
SUBMITTED BY	_____	
JOB NAME	_____	
ARCHITECT	_____	
ENGINEER	_____	
CONTRACTOR	_____	
DATE	_____	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