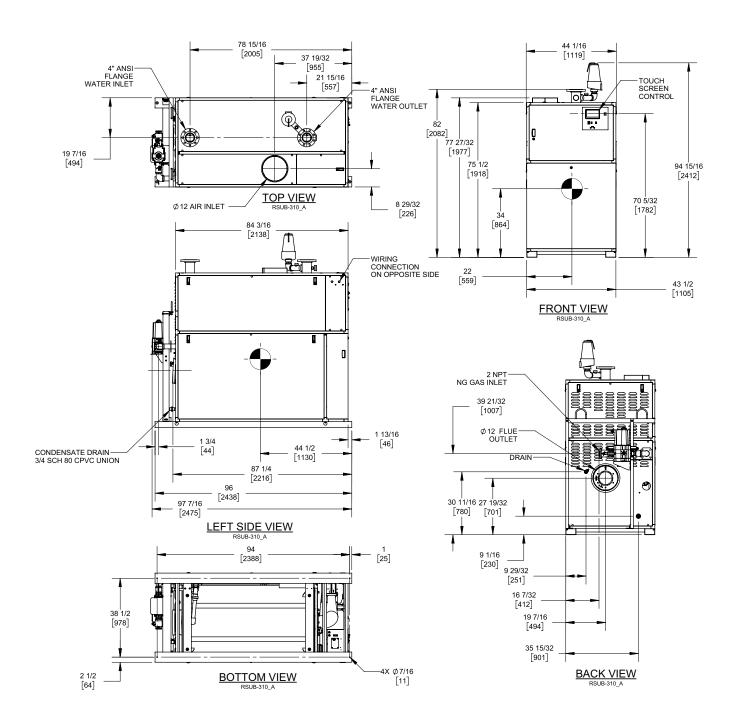
TORUS 4000 VERTICAL

Category II or Category IV Appliance

(see Installation and Operation Manual for venting information)

INDOOR UNIT



Notes:

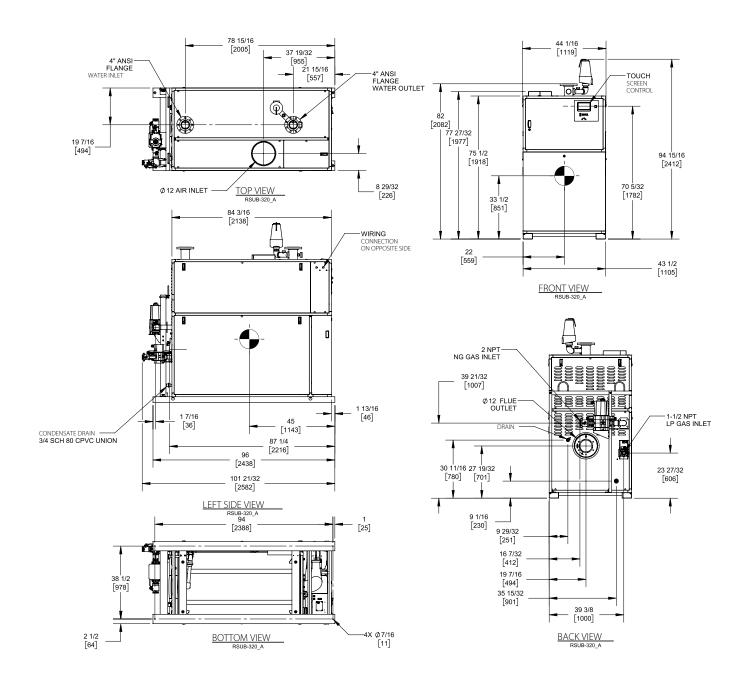
- Dimensions are approximate and should not be used to "rough-in" equipment.
- 2. Dimensions are subject to change without notice.
- All dimensions are in inches (mm).
 Symbol indicates center of gravity.

TORUS 4000 VERTICAL

Category II or Category IV Appliance

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DUAL FUEL UNIT



Notes:

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

BOILER CERTIFIED RATINGS & CAPACITIES

Fuel Type	Natural/Propane Gas	Boiler FLA	19.9*
Input BTU/hr.	4,000,000 / 1172kW	Boiler HP	116.52
Output BTU/hr.	3,900,000 / 1143 kW	Min. Gas Pressure Required	4"W.C.
Electrical Requirements	230 VAC/60 Hz/3PH	Max. Gas Pressure Allowed	14" W.C.
		Operating Weight	2866 lbs / 1300 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.	800	
Main Ball Valve 2" Apollo		Relief Valve (WB)	1" 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	402.93 Sq. Ft. / 37.43 Sq. M.	Design Data	Max. 160 psig & 210°F
Htg Surface		Water Volume	41.3 gal. / 156.3 Liters
ASME Sect IV Water Side	371.25 Sq. Ft. / 34.49 Sq. M.	pH Level	6.5-8.5
Htg Surface			

^{*} Add circulator amps.

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

	20°F /	11.1°C		30°F / 16.7°C			40°F / 22.2°C			50°F / 27.8°C				60°F / 33.3°C					
	ow ate	Pressur	re Drop	Flo Ra	ow ite	Pressur	re Drop		ow ite	Pressui	re Drop		ow ite	Pressur	re Drop	Flo Ra		Pressur	re 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
390.2	24.6	26.0	77.7	260.1	16.4	11.5	34.5	195.1	12.3	6.5	19.3	156.1	9.8	4.7	14.0	130.1	8.2	3.7	10.9

Flow GPI	M (Boiler)	Temp. Rise (°F) (Boiler**)	Vent Lengt	h (Equiv. Ft.)	Air Inlet Length (Equiv. Ft.)		
Min	Max	Min	Max	Min	Max	Min	Max	
130.1	390.2	20	60	12	160	0	160	

^{**} 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
11765	44471	7843	29647	5882	22235	4706	17788	3922	14824	3361	12706

	Water Heater Min Flow Rates							
	Normal (4	to 12) gpg			Hard (12 t	o 15) gpg		
Flow	/ Rate	Pressu	re Drop	Flow	Rate	Pressure Drop		
gpm	L/s	Ft	kPa	gpm	L/s	Ft	kPa	
294 7	186	14.8	44.2	3929	24.8	26.4	78 9	

REP FIRM	
SUBMITTED BY	
JOB NAME	
ARCHITECT	
ENGINEER	
CONTRACTOR	
DATE	

TORUS 4000 VERTICAL

Category IV Appliance

(see Installation and Operation Manual for venting information)



A Division of Mestek, Inc. Westfield, MA 01085 (833) 265-5371