

TORUS 2500 DUAL FUEL

Category II or Category IV Appliance

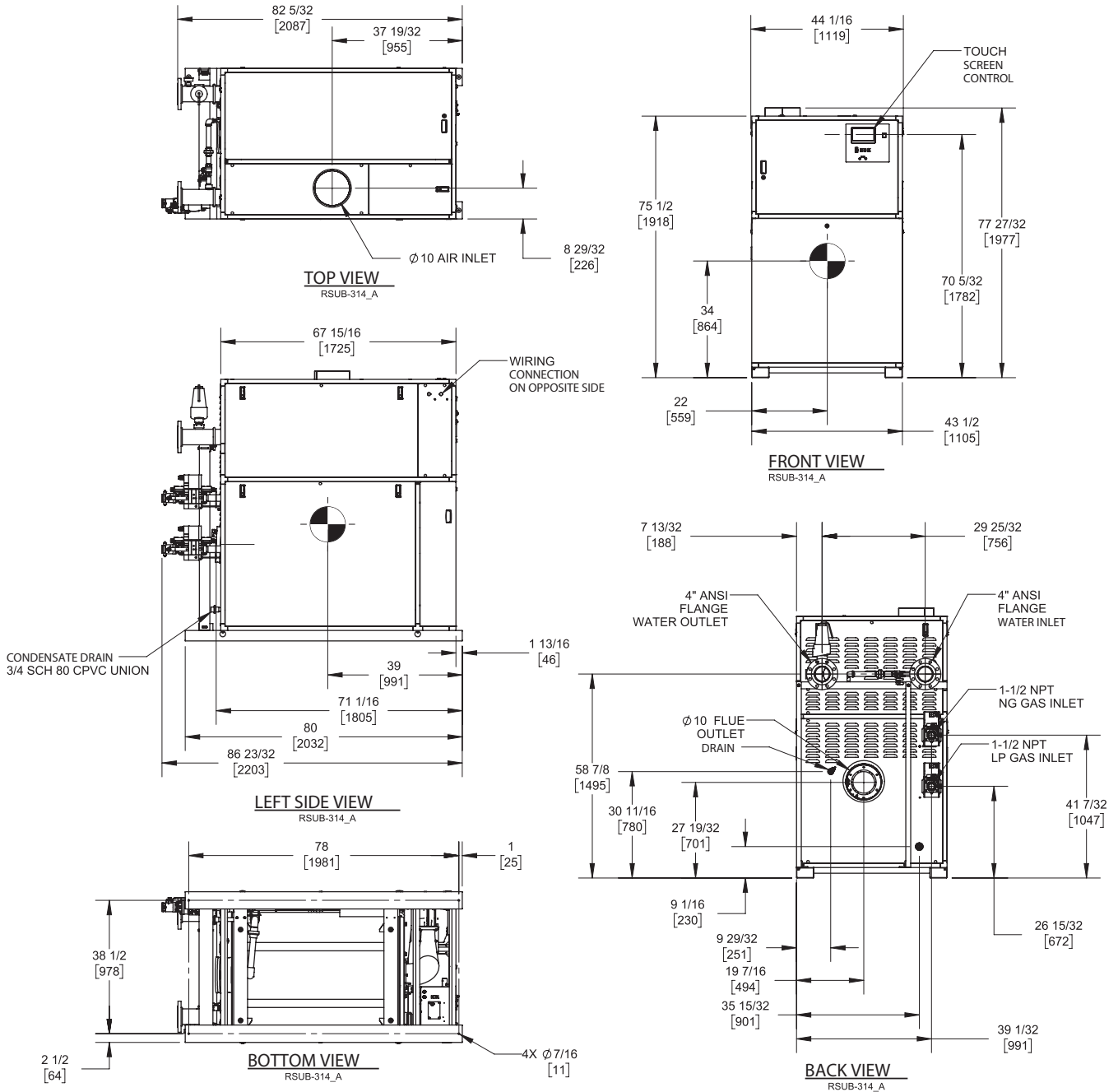
(see Installation and Operation Manual for venting information)

CODE OPTIONS

CSD-1

FIRMWARE W/REMOTE TEST
MANUAL RESET LWCO

INDOOR 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	15.05*
Input BTU/hr.	2,500,000 / 733 kW	Boiler HP	72.45
Output BTU/hr.	2,435,000 / 713 kW	Min. Gas Pressure Required	4"W.C.
Electrical Requirements	230 VAC/60 Hz/3PH	Max. Gas Pressure Allowed	14"W.C.
		Operating Weight	2311 lbs / 1048 kg

BOILER TRIM & CONTROLS

Main Gas Valve	Dungs MBC	Air Switch	Huba
Firing Valve	1 1/2" 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	1 1/2" 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	300.69 Sq. Ft. / 27.94 Sq. M.	Design Data	Max. 160 psig & 210°F
Htg Surface		Water Volume	24.9 gal. / 94.3 Liters
ASME Sect IV Water Side	277.23 Sq. Ft. / 25.76 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			
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
243.8	15.4	17.2	51.5	162.6	10.3	9.2	27.4	121.9	7.7	6.2	18.4	97.5	6.2	4.5	13.5	81.3	5.1	3.5	10.4

Flow GPM (Boiler)				Temp. Rise (°F) (Boiler**)				Vent Length (Equiv. Ft.)				Air Inlet Length (Equiv. Ft.)			
Min		Max		Min		Max		Min		Max		Min		Max	
81.3		243.8		20		60		10		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
7278	27511	4852	18340	3639	13755	2911	11004	2426	9170	2079	7860

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
239.4	15.1	16.6	49.6	319.2	20.1	29.6	88.5

REP FIRM

SUBMITTED BY

JOB NAME

ARCHITECT

ENGINEER

CONTRACTOR

DATE

TORUS 2500 DUAL FUEL

Category II or Category IV Appliance

(see Installation and Operation Manual for venting information)



A Division of Mestek, Inc.
Westfield, MA 01085
(413) 564-5515

TORUS 2500 DUAL FUEL

Category II or Category IV Appliance

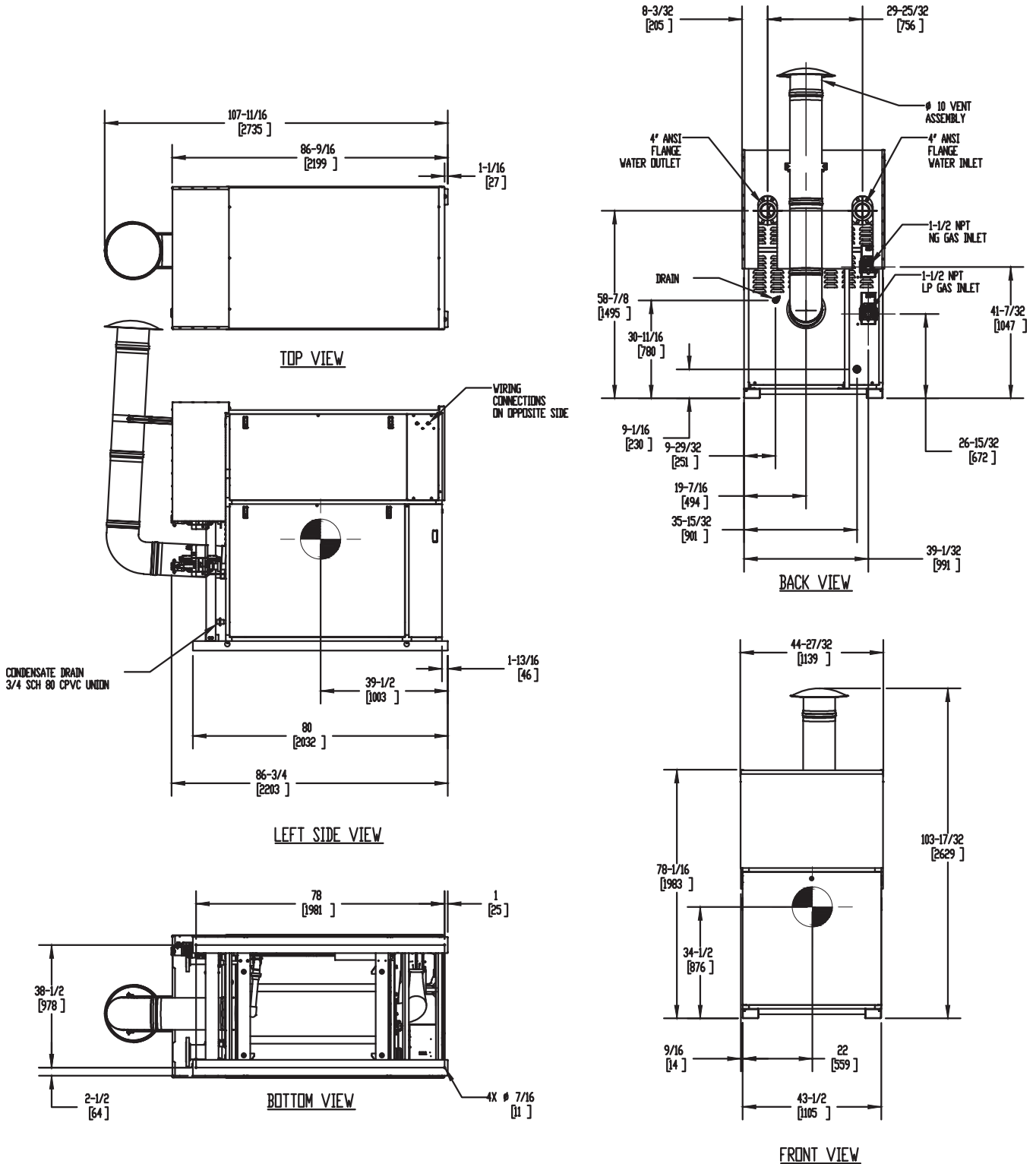
(see Installation and Operation Manual for venting information)

CODE OPTIONS

CSD-1

FIRMWARE W/REMOTE TEST
MANUAL RESET LWCO

OUTDOOR UNIT



BOILER CERTIFIED RATINGS & CAPACITIES

Fuel Type	Natural/Propane Gas	Boiler FLA	15.05*
Input BTU/hr.	2,500,000 / 733 kW	Boiler HP	72.45
Output BTU/hr.	2,430,000 / 712 kW	Min. Gas Pressure Required	4"W.C.
Electrical Requirements	230 VAC/60 Hz/3PH	Max. Gas Pressure Allowed	14" W.C.
		Operating Weight	2311 lbs / 1048 kg

BOILER TRIM & CONTROLS

Main Gas Valve	Dungs MBC	Air Switch	Huba
Firing Valve	1 1/2" 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	1 1/2" 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	300.69 Sq. Ft. / 27.94 Sq. M.	Design Data	Max. 160 psig & 210°F
Htg Surface		Water Volume	24.9 gal. / 94.3 Liters
ASME Sect IV Water Side	277.23 Sq. Ft. / 25.76 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			
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
243.1	15.3	17.1	51.2	162.2	10.2	9.1	27.3	121.5	7.7	6.1	18.4	97.2	6.1	4.5	13.50	81.0	5.1	3.5	10.4
Flow GPM (Boiler)				Temp. Rise (°F) (Boiler**)				Vent Length (Equiv. Ft.)				Air Inlet Length (Equiv. Ft.)							
Min		Max		Min		Max		Min		Max		Min		Max					
81.0		243.1		20		60		10		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
7278	27511	4852	18340	3639	13755	2911	11004	2426	9170	2079	7860

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
239.4	15.1	16.6	49.6	319.2	20.1	29.6	88.5

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

TORUS 2500 DUAL FUEL

Category II or Category IV Appliance
 (see Installation and Operation Manual for venting information)



A Division of Mestek, Inc.
 Westfield, MA 01085
 (413) 564-5515