

TORUS 1250

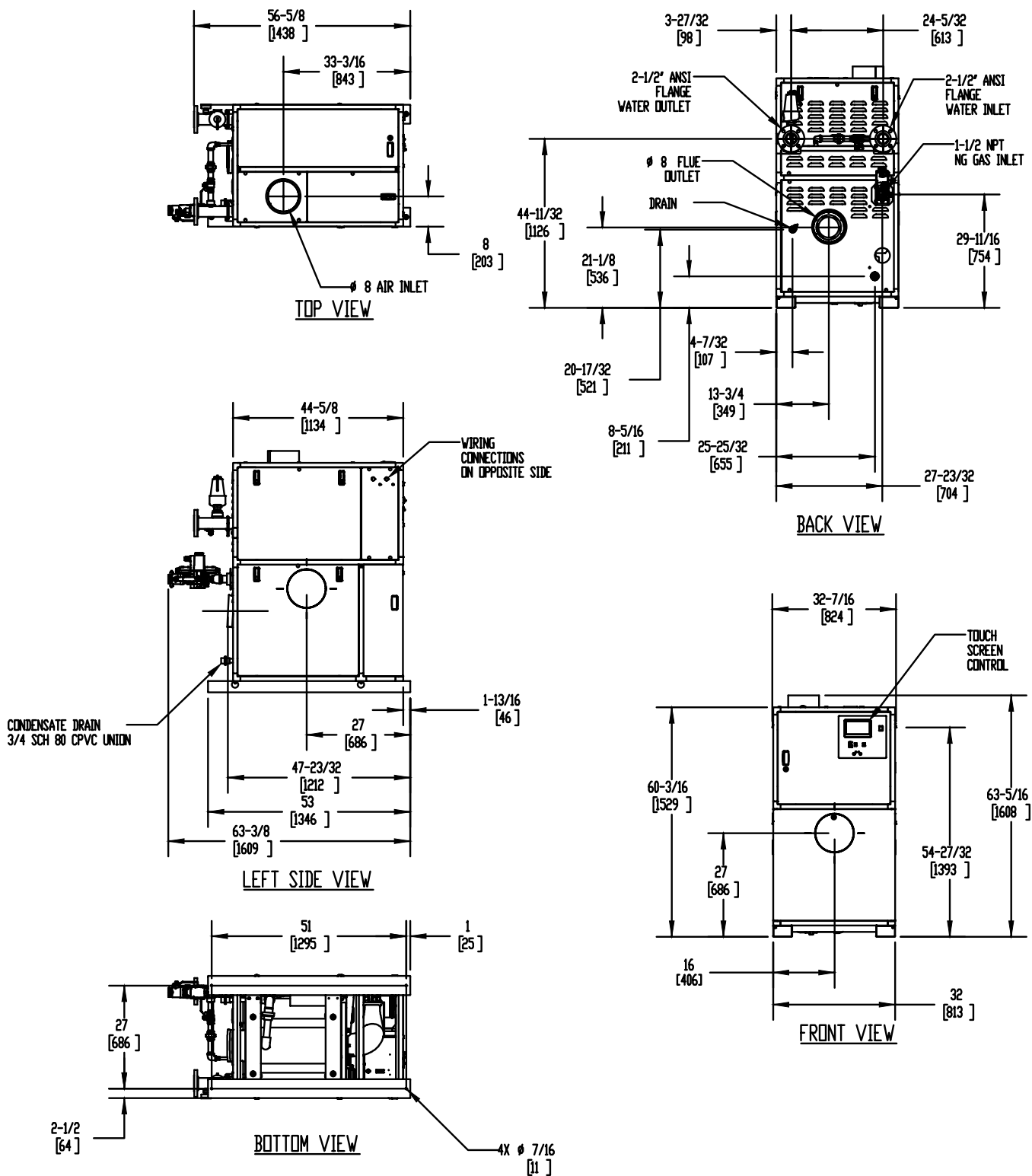
Category II or Category IV Appliance
(see Installation and Operation Manual for venting information)

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	17.14*
Input BTU/hr.	1,250,000 / 366 kW	Boiler HP	36.04
Output BTU/hr.	1,206,250 / 353 kW	Min. Gas Pressure Required	4" W.C.
Electrical Requirements	120 VAC/60 Hz/1PH	Max. Gas Pressure Allowed	14" W.C.
		Operating Weight	1084 lbs / 492 kg

BOILER TRIM & CONTROLS

Main Gas Valve	Dungs MBC	Air Switch	Huba
Firing Valve	1" 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 1-1/4" 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	100.17 Sq. Ft. / 9.31 Sq. M.	Design Data	Max. 160 psig & 210°F
ASME Sect IV Water Side Htg Surface	92.93 Sq. Ft. / 8.63 Sq. M.	Water Volume	11 gal. / 41.6 Liters

* 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
120.7	7.6	15.4	45.9	80.4	5.1	7.3	21.7	60.3	3.8	4.7	13.9	48.3	3.0	3.6	10.7	40.2	2.5	3.0	9.1

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
3639	13755	2426	9170	1819	6878	1456	5502	1213	4585	1040	3930

Flow GPM		Temp. Rise** (°F)		Vent Length (Equiv. Ft.)		Air Inlet Length (Equiv. Ft.)	
Min	Max	Min	Max	Min	Max	Min	Max
40.2	120.7	20	60	8	160	0	160

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

REP FIRM	_____	TORUS 1250 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 (413) 564-5515
SUBMITTED BY	_____	
JOB NAME	_____	
ARCHITECT	_____	
ENGINEER	_____	
CONTRACTOR	_____	
DATE	_____	

TORUS 1250

Category II or Category IV Appliance

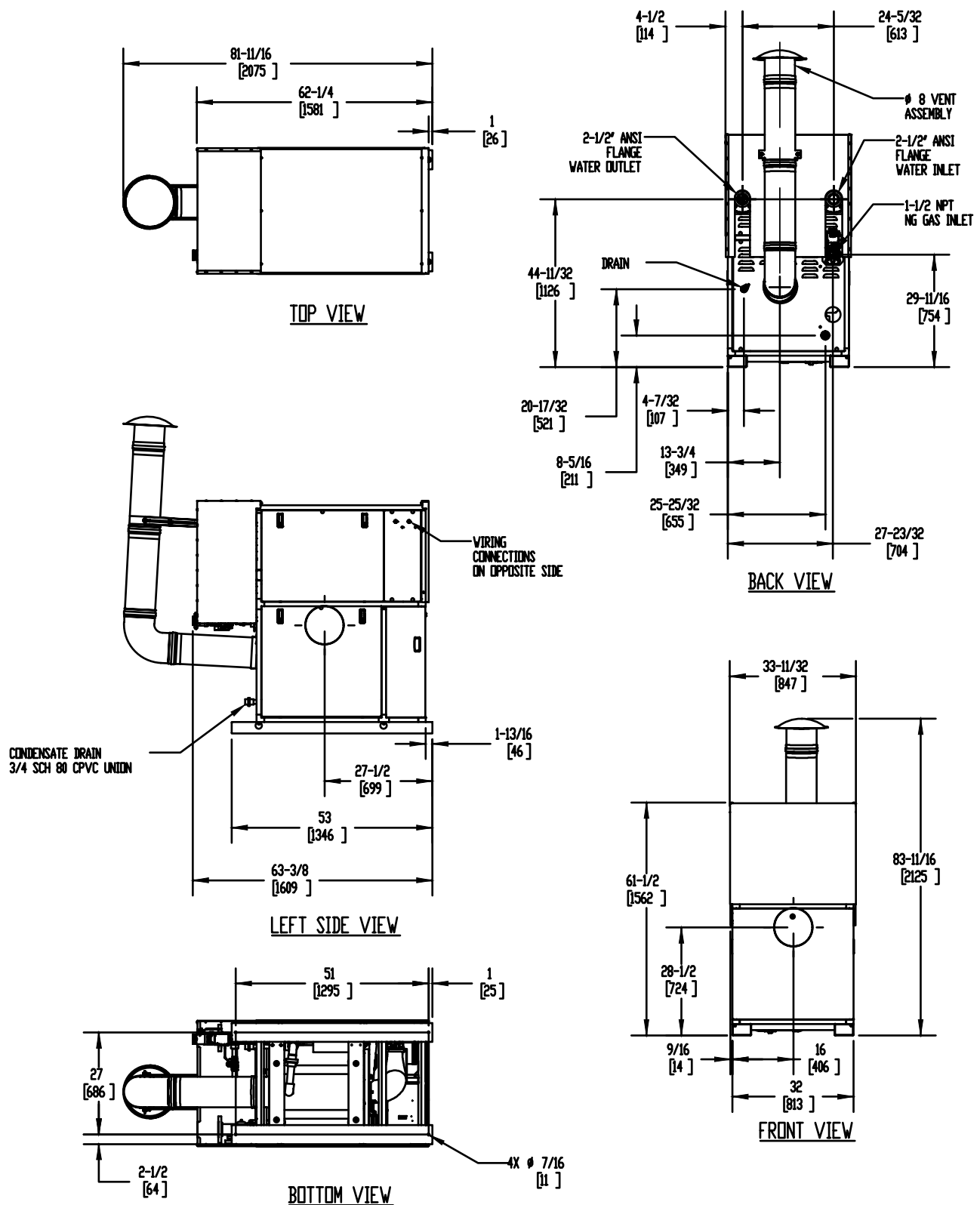
(see Installation and Operation Manual for venting information)

CODE OPTIONS

CSD-1

FIRMWARE W/REMOTE
TEST MANUAL RESET LWCO

OUTDOOR UNIT



Notes:

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4. ⦿ Symbol indicates center of gravity.

BOILER CERTIFIED RATINGS & CAPACITIES

Fuel Type	Natural/Propane Gas	Boiler FLA	17.14*
Input BTU/hr.	1,250,000 / 366 kW	Boiler HP	36.04
Output BTU/hr.	1,203,750 / 353 kW	Min. Gas Pressure Required	4" W.C.
Electrical Requirements	120 VAC/60 Hz/1PH	Max. Gas Pressure Allowed	14" W.C.
		Operating Weight	1084 lbs / 492 kg

BOILER TRIM & CONTROLS

Main Gas Valve	Dungs MBC	Air Switch	Huba
Firing Valve	1" 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 1-1/4" 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	100.17 Sq. Ft. / 9.31 Sq. M.	Design Data	Max. 160 psig & 210°F
		Water Volume	11 gal. / 41.6 Liters
ASME Sect IV Water Side Htg Surface	92.93 Sq. Ft. / 8.63 Sq. M.		

* 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
120.4	7.6	15.3	45.7	80.3	5.1	7.2	21.6	60.2	3.8	4.6	13.9	48.2	3.0	3.6	10.6	40.1	2.5	3.0	9.1

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
3639	13755	2426	9170	1819	6878	1456	5502	1213	4585	1040	3930

Flow GPM		Temp. Rise** (°F)		Vent Length (Equiv. Ft.)		Air Inlet Length (Equiv. Ft.)	
Min	Max	Min	Max	Min	Max	Min	Max
40.1	120.4	20	60	8	160	0	160

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

REP FIRM	_____	TORUS 1250 Category II or Category IV Appliance (see Installation and Operation Manual for venting information) RBI® A Division of Mestek, Inc. Westfield, MA 01085 (413) 564-5515 RELIABLE. BOLD. INNOVATIVE.
SUBMITTED BY	_____	
JOB NAME	_____	
ARCHITECT	_____	
ENGINEER	_____	
CONTRACTOR	_____	
DATE	_____	

TORUS 1500

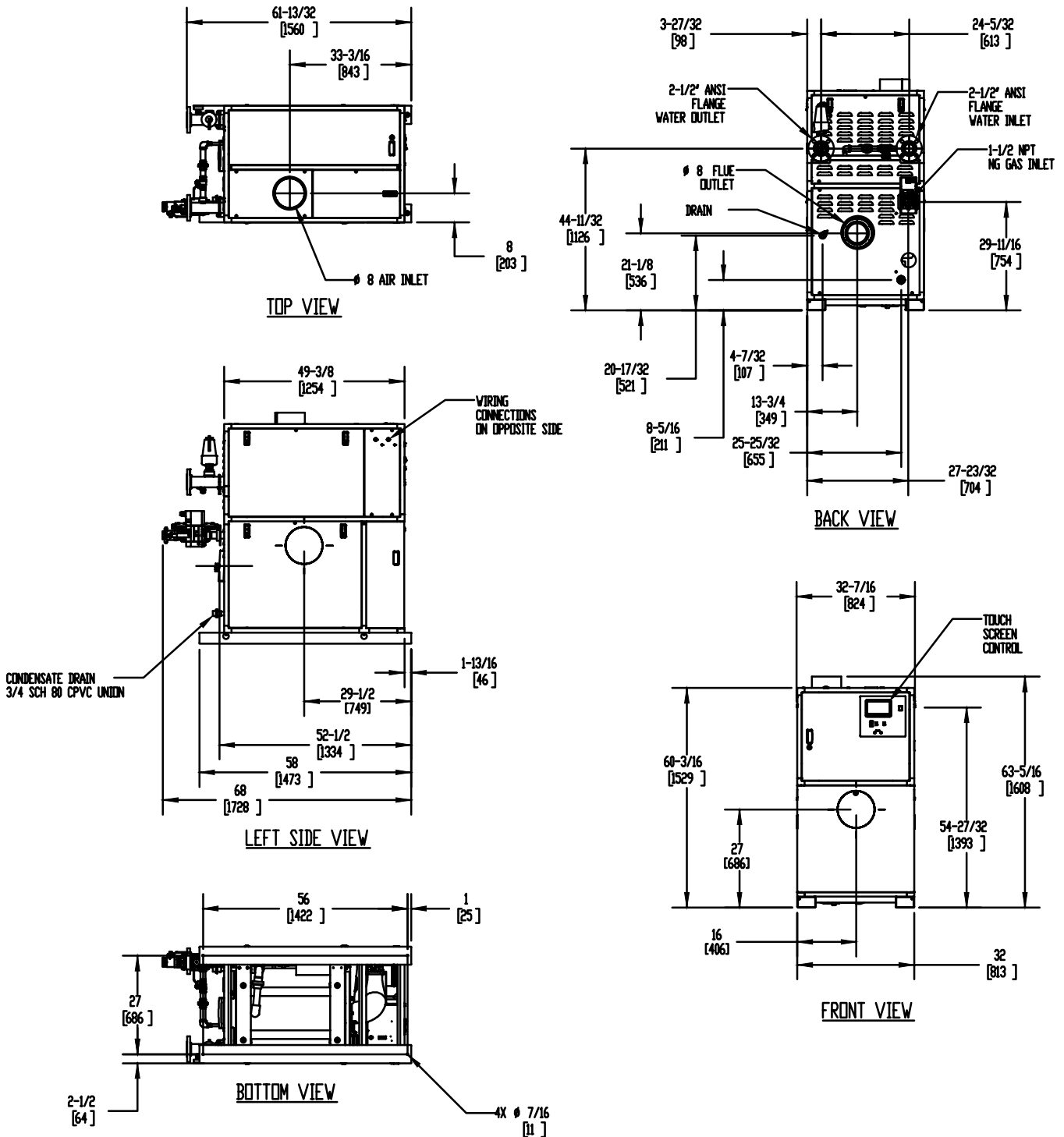
Category II or Category IV Appliance
(see Installation and Operation Manual for venting information)

CODE OPTIONS

CSD-1

FIRMWARE W/REMOTE
TEST MANUAL RESET LWCO

INDOOR UNIT



Notes:

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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	17.14*
Input BTU/hr.	1,500,000 / 440 kW	Boiler HP	43.25
Output BTU/hr.	1,447,500 / 424 kW	Min. Gas Pressure Required	4" W.C.
Electrical Requirements	120 VAC/60 Hz/1PH	Max. Gas Pressure Allowed	14" W.C.
		Operating Weight	1183 lbs / 537 kg

BOILER TRIM & CONTROLS

Main Gas Valve	Dungs MBC	Air Switch	Huba
Firing Valve	1" 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 1-1/4" 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	119.8 Sq. Ft. / 11.13 Sq. M.	Design Data	Max. 160 psig & 210°F
ASME Sect IV Water Side Htg Surface	111.08 Sq. Ft. / 10.32 Sq. M.	Water Volume	13 gal. / 49.2 Liters

* 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
144.8	9.1	16.4	49.0	96.5	6.1	8.1	24.2	72.4	4.6	5.0	14.9	57.9	3.7	3.5	10.4	48.3	3.0	2.6	7.8

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
4367	16506	2911	11004	2183	8253	1747	6603	1456	5502	1248	4716

Flow GPM		Temp. Rise** (°F)		Vent Length (Equiv. Ft.)		Air Inlet Length (Equiv. Ft.)	
Min	Max	Min	Max	Min	Max	Min	Max
48.3	144.8	20	60	8	160	0	160

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

REP FIRM	_____	TORUS 1500 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 (413) 564-5515
SUBMITTED BY	_____	
JOB NAME	_____	
ARCHITECT	_____	
ENGINEER	_____	
CONTRACTOR	_____	
DATE	_____	

TORUS 1500

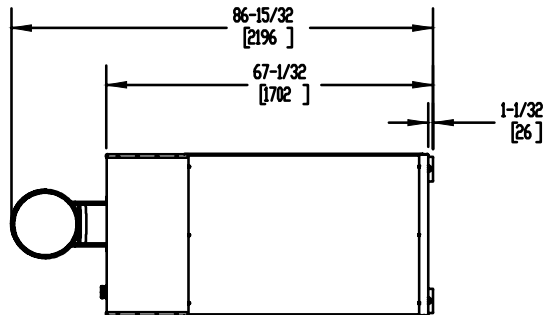
Category II or Category IV Appliance
(see Installation and Operation Manual for venting information)

CODE OPTIONS

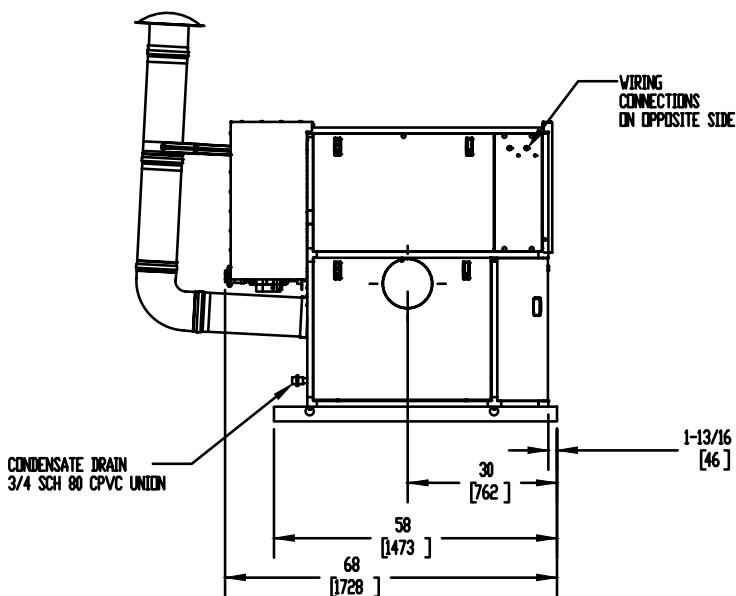
CSD-1

FIRMWARE W/REMOTE
TEST MANUAL RESET LWCO

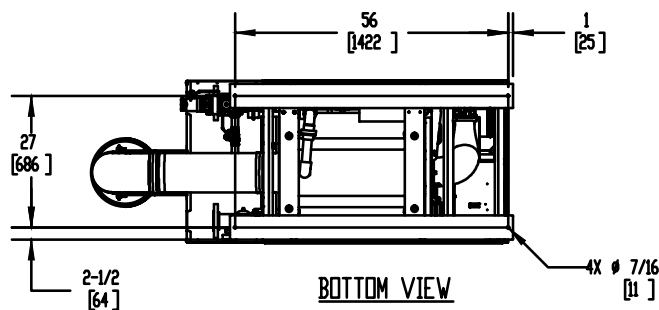
OUTDOOR UNIT



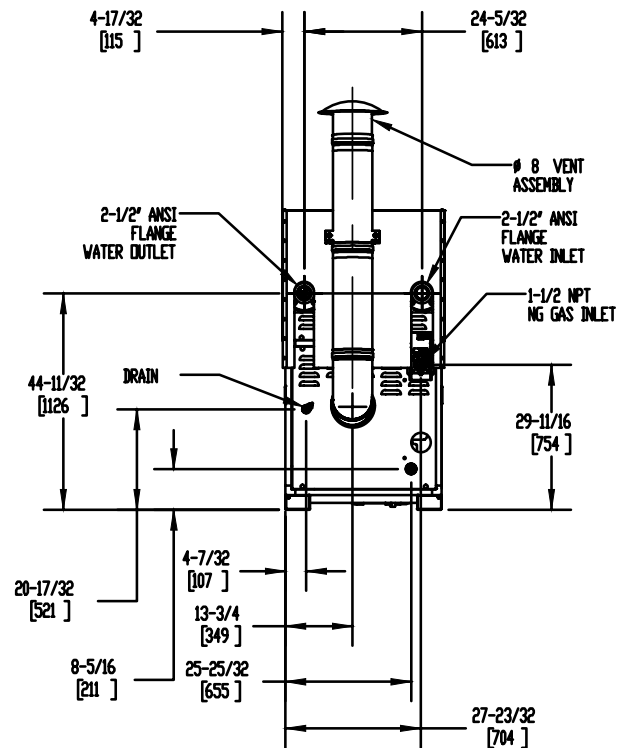
TOP VIEW



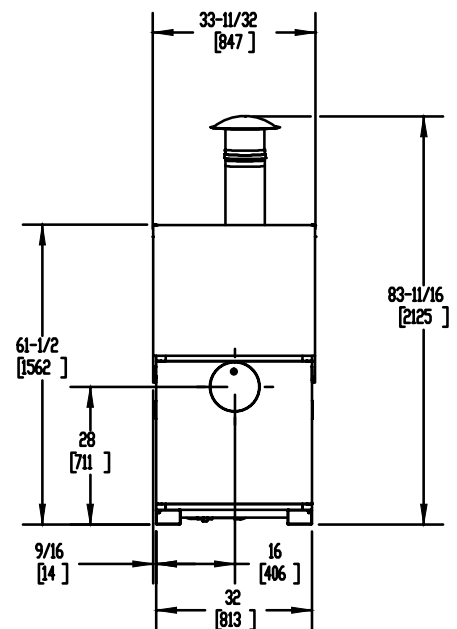
LEFT SIDE VIEW



BOTTOM VIEW



BACK VIEW



FRONT VIEW

Notes:

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4. Symbol indicates center of gravity.

BOILER CERTIFIED RATINGS & CAPACITIES

Fuel Type	Natural/Propane Gas	Boiler FLA	17.14*
Input BTU/hr.	1,500,000 / 440 kW	Boiler HP	43.25
Output BTU/hr.	1,444,500 / 423 kW	Min. Gas Pressure Required	4" W.C.
Electrical Requirements	120 VAC/60 Hz/1PH	Max. Gas Pressure Allowed	14" W.C.
		Operating Weight	1183 lbs / 537 kg

BOILER TRIM & CONTROLS

Main Gas Valve	Dungs MBC	Air Switch	Huba
Firing Valve	1" 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 1-1/4" 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	119.8 Sq. Ft. / 11.13 Sq. M.	Design Data	Max. 160 psig & 210°F
ASME Sect IV Water Side Htg Surface	111.08 Sq. Ft. / 10.32 Sq. M.	Water Volume	13 gal. / 49.2 Liters

* 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
144.5	9.1	16.3	48.8	96.3	6.1	8.1	24.1	72.3	4.6	5.0	14.9	57.8	3.7	3.5	10.4	48.2	3.0	2.6	7.7

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
4367	16506	2911	11004	2183	8253	1747	6603	1456	5502	1248	4716

Flow GPM		Temp. Rise** (°F)		Vent Length (Equiv. Ft.)		Air Inlet Length (Equiv. Ft.)	
Min	Max	Min	Max	Min	Max	Min	Max
48.2	144.5	20	60	8	160	0	160

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

REP FIRM _____ SUBMITTED BY _____ JOB NAME _____ ARCHITECT _____ ENGINEER _____ CONTRACTOR _____ DATE _____	TORUS 1500 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 RELIABLE. BOLD. INNOVATIVE.
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TORUS 2000

Category II or Category IV Appliance

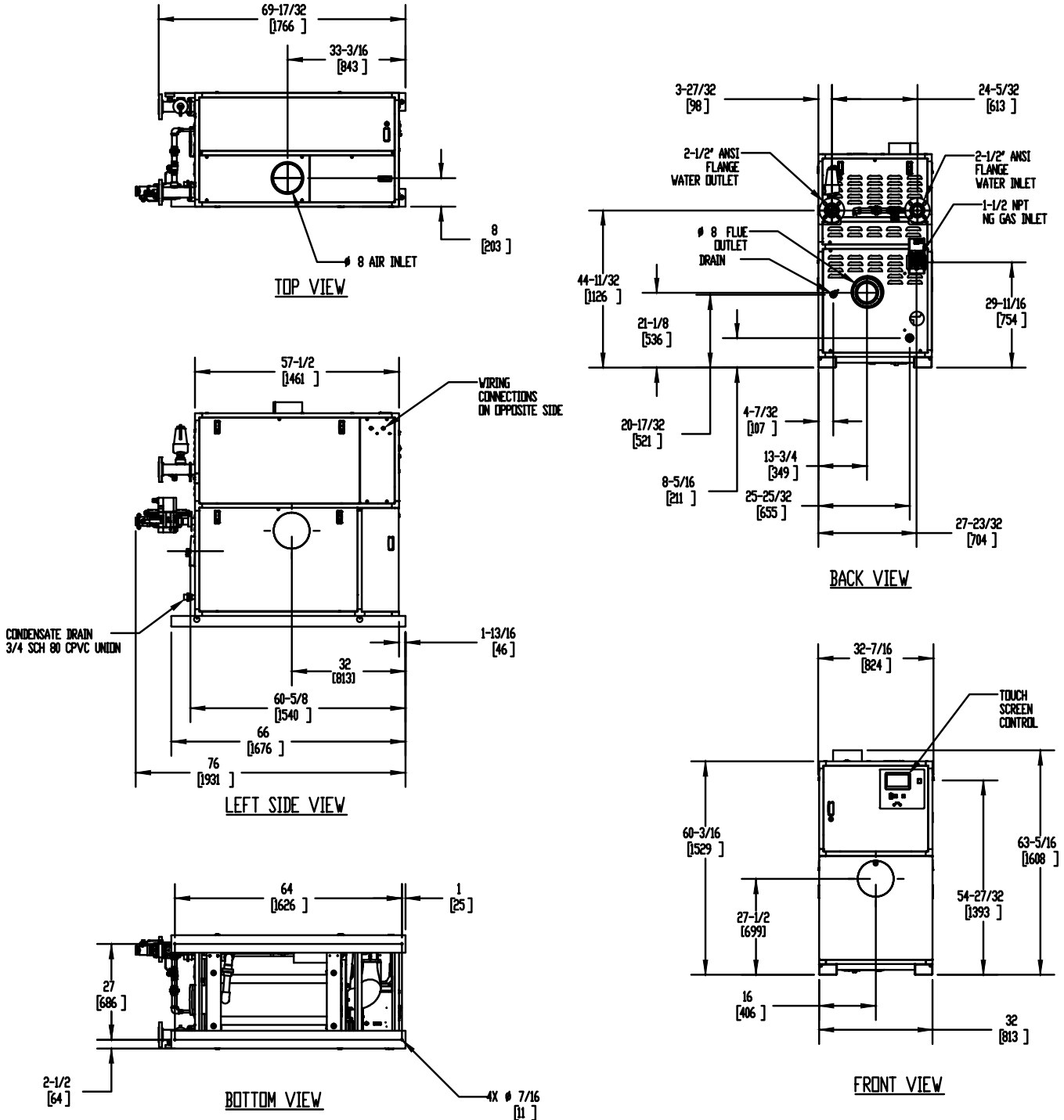
(see Installation and Operation Manual for venting information)

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	25.6
Input BTU/hr.	1,999,999 / 586 kW	Boiler HP	57.66
Output BTU/hr.	1,929,035 / 565 kW	Min. Gas Pressure Required	4" W.C.
Electrical Requirements	230 VAC/60 Hz/1PH	Max. Gas Pressure Allowed	14" W.C.
		Operating Weight	1388 lbs / 630 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 1-1/4" 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	153.19 Sq. Ft. / 14.23 Sq. M.	Design Data	Max. 160 psig & 210°F
ASME Sect IV Water Side Htg Surface	141.93 Sq. Ft. / 13.19 Sq. M.	Water Volume	16.9 gal. / 64 Liters

* 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
193.0	12.2	20.1	60.1	128.7	8.1	9.9	29.7	96.5	6.1	6.1	18.2	77.2	4.9	4.2	12.5	64.3	4.1	3.1	9.2

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
5819	21997	3880	14665	2910	10999	2328	8799	1940	7332	1663	6285

Flow GPM				Temp. Rise** (°F)				Vent Length (Equiv. Ft.)				Air Inlet Length (Equiv. Ft.)			
Min		Max		Min		Max		Min		Max		Min		Max	
64.3		193.0		20		60		8		160		0		160	

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TORUS 2000

Category II or Category IV Appliance

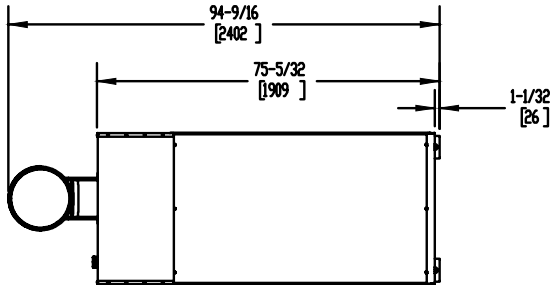
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CODE OPTIONS

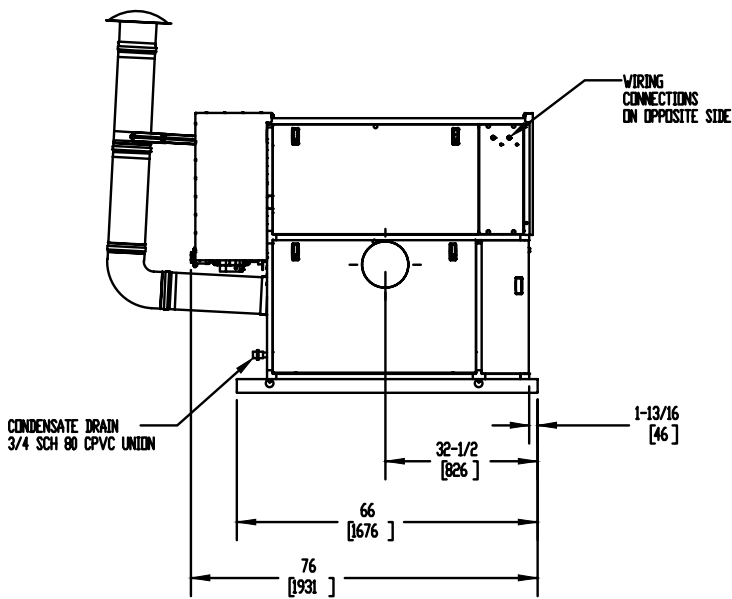
CSD-1

FIRMWARE W/REMOTE
TEST MANUAL RESET LWCO

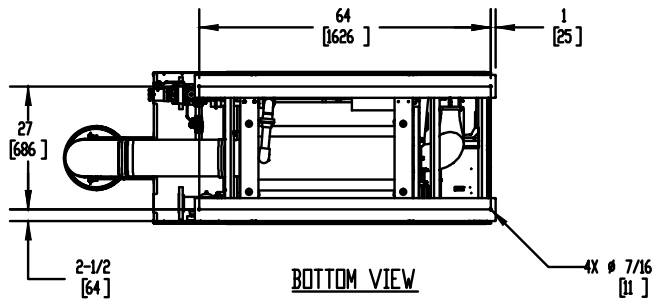
OUTDOOR UNIT



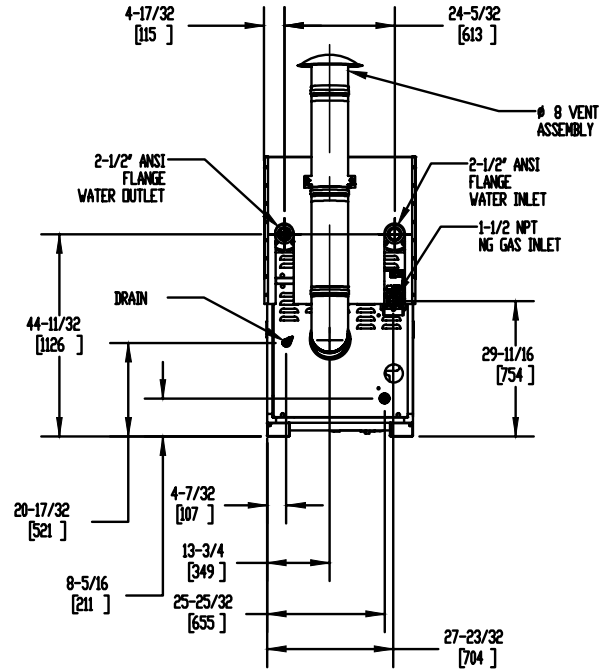
TOP VIEW



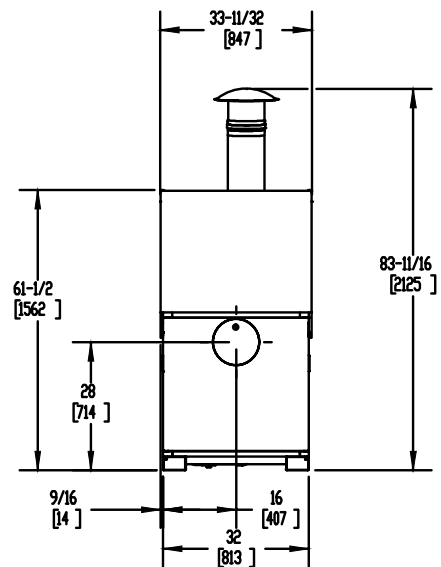
LEFT SIDE VIEW



BOTTOM VIEW



BACK VIEW



FRONT VIEW

Notes:

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BOILER CERTIFIED RATINGS & CAPACITIES

Fuel Type	Natural/Propane Gas	Boiler FLA	25.6
Input BTU/hr.	1,999,999 / 586 kW	Boiler HP	57.66
Output BTU/hr.	1,925,037 / 564 kW	Min. Gas Pressure Required	4" W.C.
Electrical Requirements	230 VAC/60 Hz/1PH	Max. Gas Pressure Allowed	14" W.C.
		Operating Weight	1388 lbs / 630 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
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High Limit	Jumo	L.W.C.O.	800
Main Ball Valve	1 1/2" 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	153.19 Sq. Ft. / 14.23 Sq. M.	Design Data	Max. 160 psig & 210°F
ASME Sect IV Water Side Htg Surface	141.93 Sq. Ft. / 13.19 Sq. M.	Water Volume	16.9 gal. / 64 Liters

* 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
192.6	12.1	20.0	59.8	128.4	8.1	9.9	29.6	96.3	6.1	6.1	18.1	77.0	4.9	4.2	12.5	64.2	4.0	3.1	9.2

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
5819	21997	3880	14665	2910	10999	2328	8799	1940	7332	1663	6285

Flow GPM		Temp. Rise** (°F)		Vent Length (Equiv. Ft.)		Air Inlet Length (Equiv. Ft.)	
Min	Max	Min	Max	Min	Max	Min	Max
64.2	192.6	20	60	8	160	0	160

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

REP FIRM _____ SUBMITTED BY _____ JOB NAME _____ ARCHITECT _____ ENGINEER _____ CONTRACTOR _____ DATE _____	TORUS 2000 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 RELIABLE. BOLD. INNOVATIVE.
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TORUS 3000

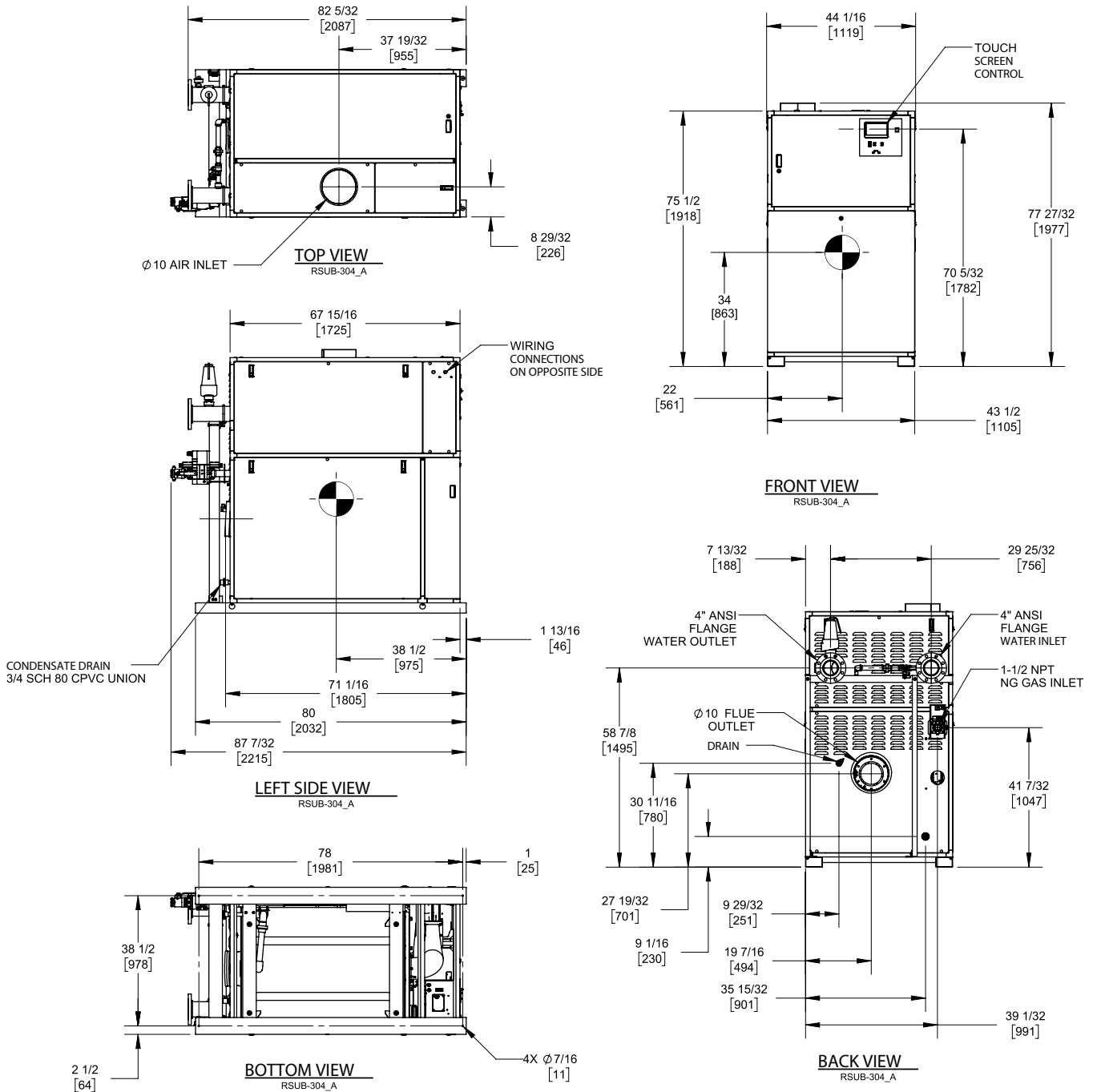
Category II or Category IV Appliance
(see Installation and Operation Manual for venting information)

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.	3,000,000 / 879 kW	Boiler HP	87.39
Output BTU/hr.	2,925,000 / 857 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 Htg Surface	300.69 Sq. Ft. / 27.94 Sq. M.	Design Data	Max. 160 psig & 210°F
ASME Sect IV Water Side Htg Surface	277.23 Sq. Ft. / 25.76 Sq. M.	Water Volume	24.9 gal. / 94.3 Liters

* 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
292.6	18.5	21.0	62.7	195.1	12.3	11.8	35.3	146.3	9.2	7.9	23.7	117.0	7.4	5.8	17.4	97.5	6.2	4.5	13.5

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
8824	33353	5882	22235	4412	16676	3529	13341	2941	11118	2521	9529

Flow GPM				Temp. Rise** (°F)				Vent Length (Equiv. Ft.)				Air Inlet Length (Equiv. Ft.)			
Min		Max		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
97.5		292.6		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.

REP FIRM _____ SUBMITTED BY _____ JOB NAME _____ ARCHITECT _____ ENGINEER _____ CONTRACTOR _____ DATE _____	TORUS 3000 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 RELIABLE. BOLD. INNOVATIVE.
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TORUS 3000

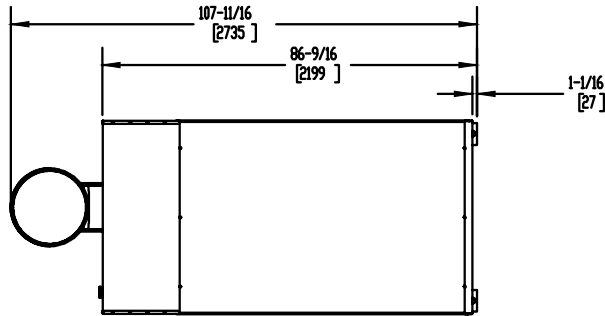
Category II or Category IV Appliance
(see Installation and Operation Manual for venting information)

CODE OPTIONS

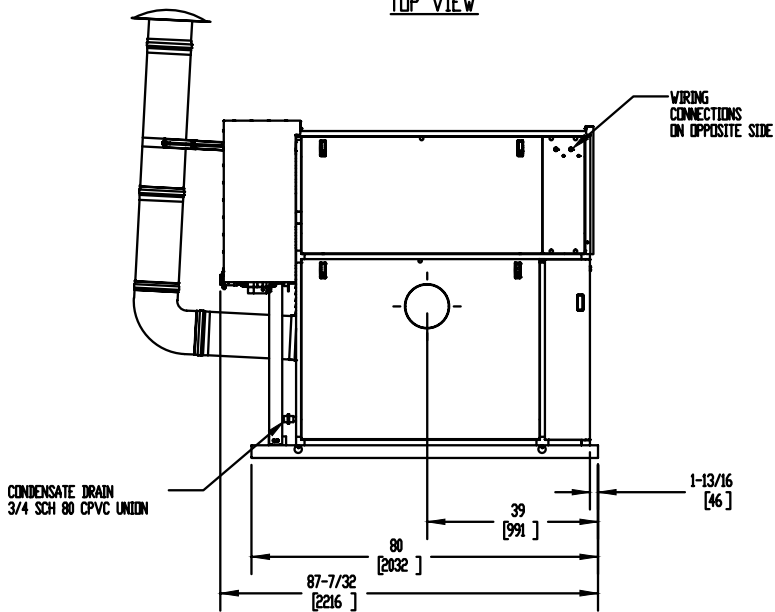
CSD-1

FIRMWARE W/REMOTE
TEST MANUAL RESET LWCO

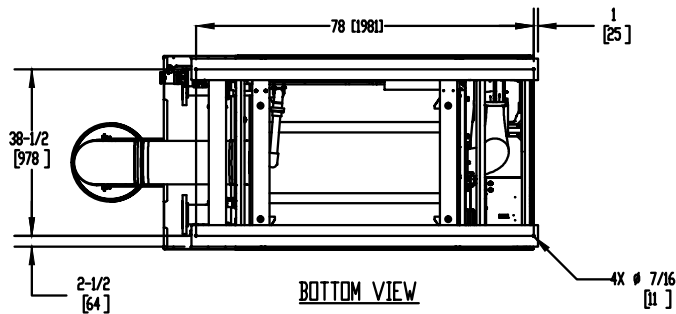
OUTDOOR UNIT



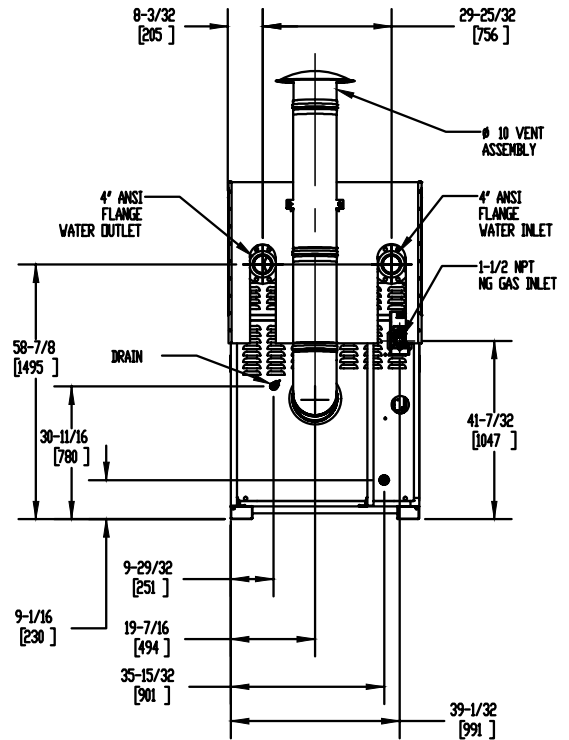
TOP VIEW



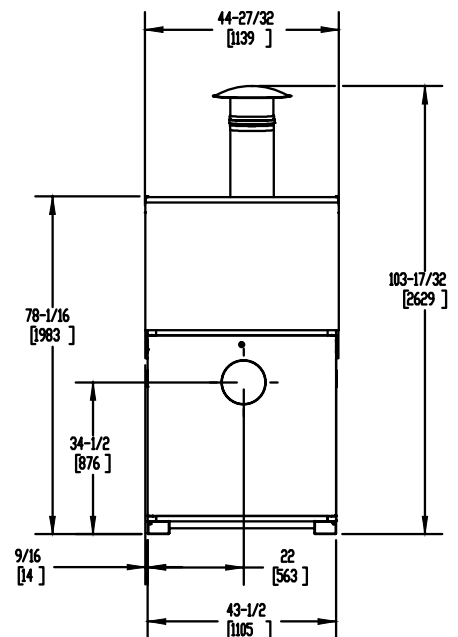
LEFT SIDE VIEW



BOTTOM VIEW



BACK VIEW



FRONT VIEW

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.	3,000,000 / 879 kW	Boiler HP	87.39
Output BTU/hr.	2,919,000 / 856 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 Htg Surface	300.69 Sq. Ft. / 27.94 Sq. M.	Design Data	Max. 160 psig & 210°F
ASME Sect IV Water Side Htg Surface	277.23 Sq. Ft. / 25.76 Sq. M.	Water Volume	24.9 gal. / 94.3 Liters

* 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
292.0	18.4	20.9	62.6	194.7	12.3	11.8	35.2	146	9.2	7.9	23.6	116.8	7.4	5.8	17.4	97.3	6.1	4.5	13.5

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
8824	33353	5882	22235	4412	16676	3529	13341	2941	11118	2521	9529

Flow GPM				Temp. Rise** (°F)				Vent Length (Equiv. Ft.)				Air Inlet Length (Equiv. Ft.)			
Min		Max		Min		Max		Min		Max		Min		Max	
97.3		292.0		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.

REP FIRM	_____	TORUS 3000
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 (413) 564-5515

TORUS 4000

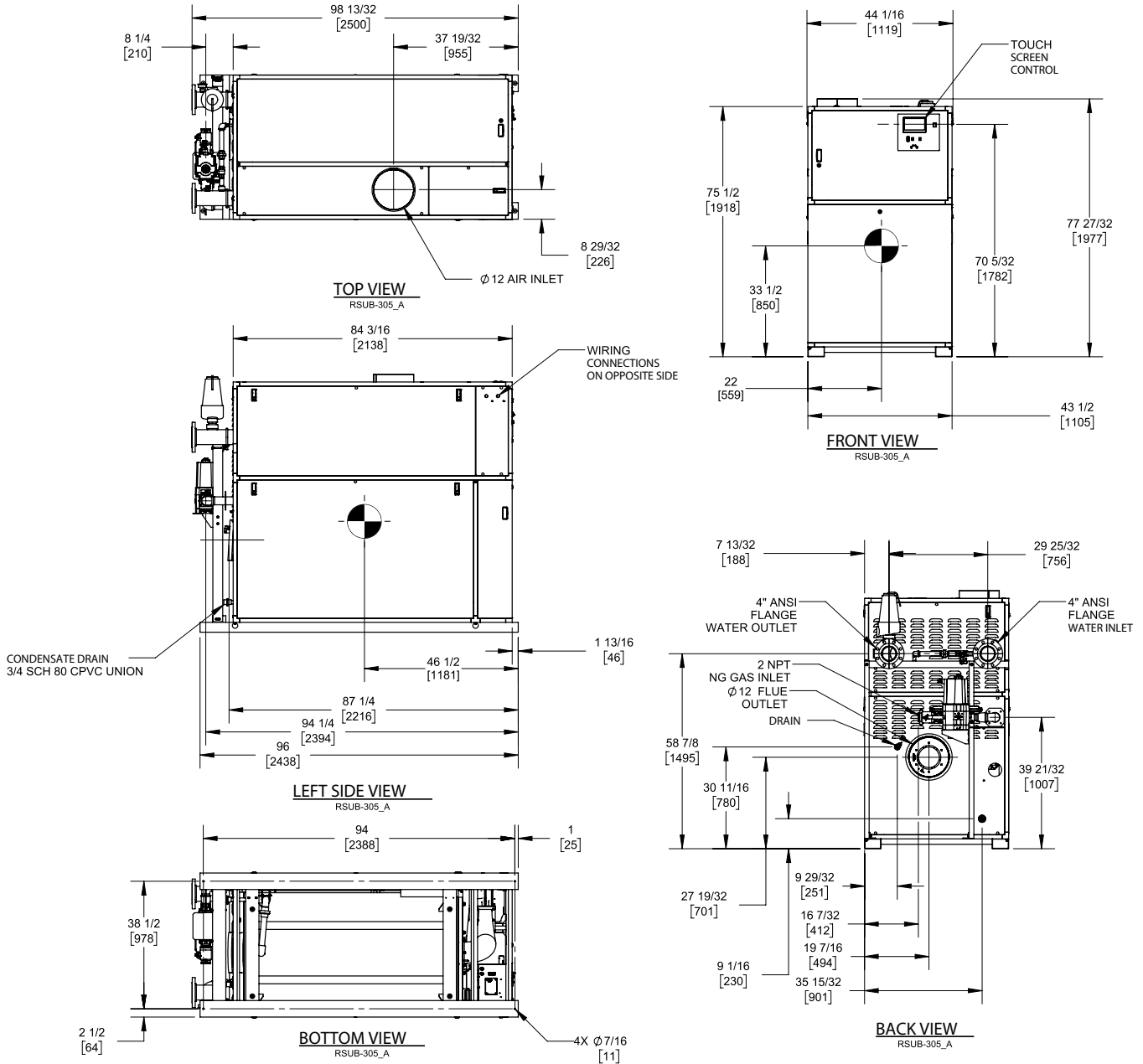
Category II or Category IV Appliance
(see Installation and Operation Manual for venting information)

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	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	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 Htg Surface	402.93 Sq. Ft. / 37.43 Sq. M.	Design Data	Max. 160 psig & 210°F
ASME Sect IV Water Side Htg Surface	371.25 Sq. Ft. / 34.49 Sq. M.	Water Volume	41.3 gal. / 156.3 Liters

* 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
390.2	24.6	19.9	59.6	260.1	16.4	10.1	30.2	195.1	12.3	6.5	19.3	156.1	9.8	4.7	14.0	130.1	8.2	3.7	10.9

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

Flow GPM				Temp. Rise** (°F)				Vent Length (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.

REP FIRM _____ SUBMITTED BY _____ JOB NAME _____ ARCHITECT _____ ENGINEER _____ CONTRACTOR _____ DATE _____	TORUS 4000 Category II or Category IV Appliance (see Installation and Operation Manual for venting information)  RBI® RELIABLE. BOLD. INNOVATIVE. A Division of Mestek, Inc. Westfield, MA 01085 (413) 564-5515
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TORUS 4000

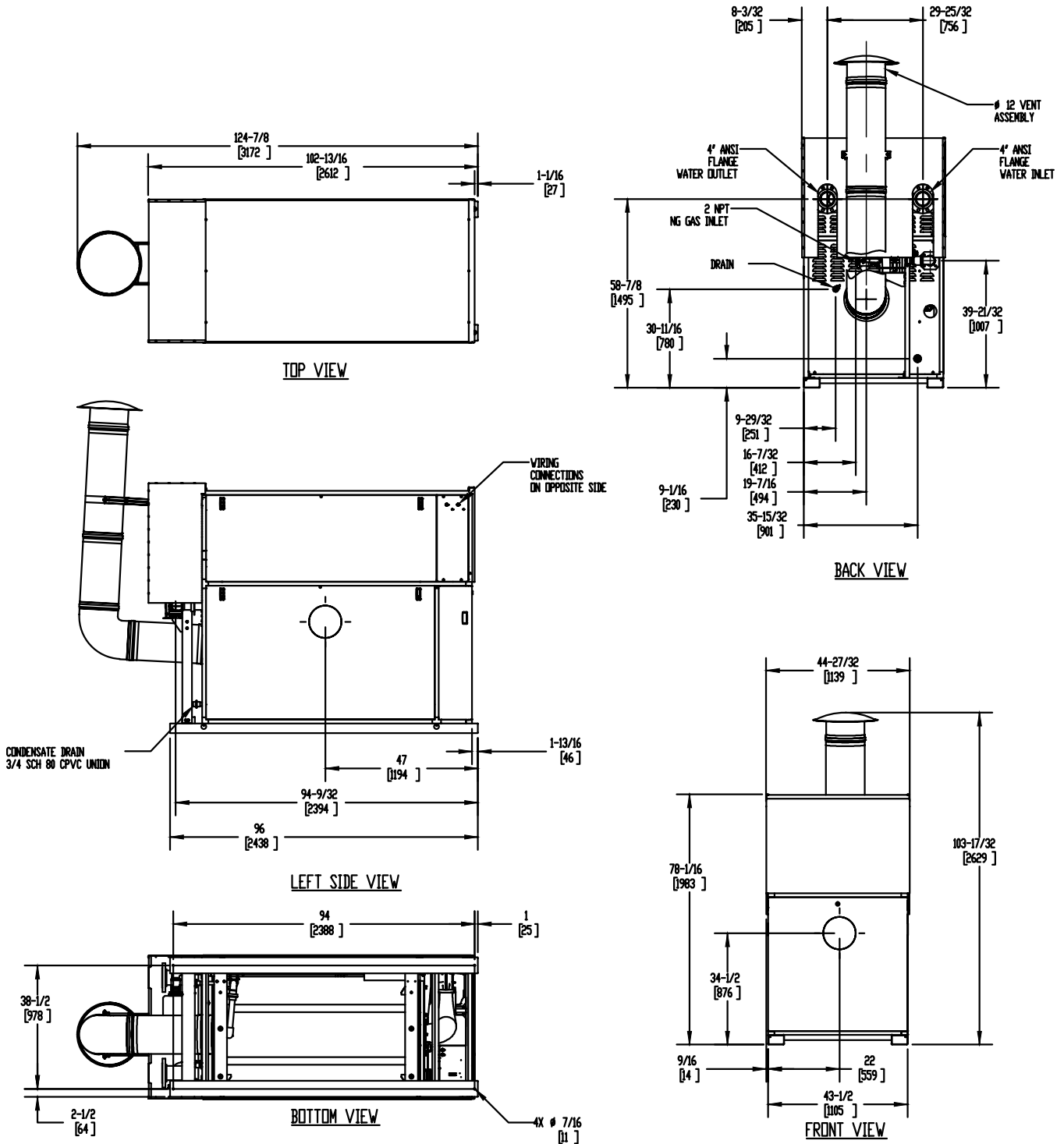
Category II or Category IV Appliance
(see Installation and Operation Manual for venting information)

CODE OPTIONS

CSD-1

FIRMWARE W/REMOTE
TEST MANUAL RESET LWCO

OUTDOOR UNIT



BOILER CERTIFIED RATINGS & CAPACITIES

Fuel Type	Natural/Propane Gas	Boiler FLA	19.9*
Input BTU/hr.	4,000,000 / 1172kW	Boiler HP	116.52
Output BTU/hr.	3,892,000 / 1141 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	1 1/2" Apollo	Flow Switch	SIKA
Ignition Control	Fenwal	Blocked Flue Switch	Cleveland NS2
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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
389.4	24.6	19.9	59.3	259.6	16.4	10.1	30.1	194.7	12.3	6.4	19.2	155.7	9.8	4.7	13.9	129.8	8.2	3.7	10.9

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

Flow GPM		Temp. Rise** (°F)		Vent Length (Equiv. Ft.)		Air Inlet Length (Equiv. Ft.)	
Min	Max	Min	Max	Min	Max	Min	Max
129.8	389.4	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.

REP FIRM _____ SUBMITTED BY _____ JOB NAME _____ ARCHITECT _____ ENGINEER _____ CONTRACTOR _____ DATE _____	TORUS 4000 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 RELIABLE. BOLD. INNOVATIVE.
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