TORUS 1250 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**	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
		Water Volume	11 gal. / 41.6 Liters
ASME Sect IV Water Side Htg Surface	92.93 Sq. Ft. / 8.63 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				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

Flow GPM (Boiler)		Temp. Rise (˚F) (Boiler**)		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.

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

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
99.0	6.2	10.5	31.4	132.0	8.3	18.3	54.7

REP FIRM _____

SUBMITTED BY _____

JOB NAME _____

ARCHITECT _____

ENGINEER _____

CONTRACTOR _____

DATE _____

TORUS 1250 DUAL FUEL

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

TORUS 1250 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

TOP VIEW

BACK VIEW

LEFT SIDE VIEW

BOTTOM 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**	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.	**pH Level**	6.5-8.5

* 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	153	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

Flow GPM (Boiler)		Temp. Rise (˚F) (Boiler**)		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.

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

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
99.0	6.2	10.5	31.4	132.0	8.3	18.3	54.7

REP FIRM _____

SUBMITTED BY _____

JOB NAME _____

ARCHITECT _____

ENGINEER _____

CONTRACTOR _____

DATE _____

TORUS 1250 DUAL FUEL

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

TORUS 1500 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**	21.0*
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
		Water Volume	13 gal. / 49.2 Liters
ASME Sect IV Water Side Htg Surface	111.08 Sq. Ft. / 10.32 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				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

Flow GPM (Boiler)		Temp. Rise (˚F) (Boiler**)		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.

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

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
110.0	6.9	10.1	30.2	147.0	9.3	16.8	50.2

REP FIRM _____

SUBMITTED BY _____

JOB NAME _____

ARCHITECT _____

ENGINEER _____

CONTRACTOR _____

DATE _____

TORUS 1500 DUAL FUEL

Category II or Category IV Appliance

(see Installation and Operation Manual for venting information)

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Westfield, MA 01085
(413) 564-5515

TORUS 1500 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

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**	21.0*
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
		Water Volume	13 gal. / 49.2 Liters
ASME Sect IV Water Side Htg Surface	111.08 Sq. Ft. / 10.32 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				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

Flow GPM (Boiler)		Temp. Rise (˚F) (Boiler**)		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.

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

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
110.0	6.9	10.1	30.2	147.0	9.3	16.8	50.2

REP FIRM _____

SUBMITTED BY _____

JOB NAME _____

ARCHITECT _____

ENGINEER _____

CONTRACTOR _____

DATE _____

TORUS 1500 DUAL FUEL

Category II or Category IV Appliance

(see Installation and Operation Manual for venting information)

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TORUS 2000 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

TOP VIEW

BACK VIEW

LEFT SIDE VIEW

FRONT VIEW

BOTTOM 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**	25.6
Input BTU/hr.	1,999,000 / 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
		Water Volume	16.9 gal. / 64 Liters
ASME Sect IV Water Side Htg Surface	141.93 Sq. Ft. / 13.19 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				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

Flow GPM (Boiler)		Temp. Rise (˚F) (Boiler**)		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

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

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
138.0	8.7	11.2	33.5	183.0	11.5	18.3	54.7

REP FIRM _____

SUBMITTED BY _____

JOB NAME _____

ARCHITECT _____

ENGINEER _____

CONTRACTOR _____

DATE _____

TORUS 2000 DUAL FUEL

Category II or Category IV Appliance

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TORUS 2000 DUAL FUEL

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CODE OPTIONS

CSD-1	FIRMWARE W/REMOTE TEST MANUAL RESET LWCO

OUTDOOR UNIT

TOP VIEW

BACK VIEW

LEFT SIDE VIEW

FRONT VIEW

BOTTOM VIEW

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**	25.6
Input BTU/hr.	1,999,000 / 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
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
		Water Volume	16.9 gal. / 64 Liters
ASME Sect IV Water Side Htg Surface	141.93 Sq. Ft. / 13.19 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				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

Flow GPM (Boiler)		Temp. Rise (˚F) (Boiler**)		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.

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

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
138.0	8.7	11.2	33.5	183.0	11.5	18.3	54.7

REP FIRM _____

SUBMITTED BY _____

JOB NAME _____

ARCHITECT _____

ENGINEER _____

CONTRACTOR _____

DATE _____

TORUS 2000 DUAL FUEL

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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 Htg Surface	300.69 Sq. Ft. / 27.94 Sq. M.	**Design Data**	Max. 160 psig & 210°F
		Water Volume	24.9 gal. / 94.3 Liters
ASME Sect IV Water Side Htg Surface	277.23 Sq. Ft. / 25.76 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				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	16.2	48.3	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
214.0	13.5	13.4	40.1	285.0	18.0	20.2	60.4

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)

RBI® RELIABLE. BOLD. INNOVATIVE.

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

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.	2,430,000 / 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 Htg Surface	300.69 Sq. Ft. / 27.94 Sq. M.	**Design Data**	Max. 160 psig & 210°F
		Water Volume	24.9 gal. / 94.3 Liters
ASME Sect IV Water Side Htg Surface	277.23 Sq. Ft. / 25.76 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				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	16.1	48.1	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
214.0	13.5	13.4	40.1	285.0	18.0	20.2	60.4

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)

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(413) 564-5515

TORUS 3000 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.	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
		Water Volume	24.9 gal. / 94.3 Liters
ASME Sect IV Water Side Htg Surface	277.23 Sq. Ft. / 25.76 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				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

Flow GPM (Boiler)		Temp. Rise (˚F) (Boiler**)		Vent Length (Equiv. Ft.)		Air Inlet Length (Equiv. Ft.)	
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.

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

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
214.0	13.5	13.4	40.1	285.0	18.0	20.2	60.4

REP FIRM _____

SUBMITTED BY _____

JOB NAME _____

ARCHITECT _____

ENGINEER _____

CONTRACTOR _____

DATE _____

TORUS 3000 DUAL FUEL

Category II or Category IV Appliance

(see Installation and Operation Manual for venting information)

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TORUS 3000 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

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
		Water Volume	24.9 gal. / 94.3 Liters
ASME Sect IV Water Side Htg Surface	277.23 Sq. Ft. / 25.76 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				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

Flow GPM (Boiler)		Temp. Rise (°F) (Boiler**)		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.

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

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
214.0	13.5	13.4	40.1	285.0	18.0	20.2	60.4

REP FIRM _____

SUBMITTED BY _____

JOB NAME _____

ARCHITECT _____

ENGINEER _____

CONTRACTOR _____

DATE _____

TORUS 3000 DUAL FUEL

Category II or Category IV Appliance

(see Installation and Operation Manual for venting information)

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TORUS 4000 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**	19.9*
Input BTU/hr.	4,000,000 / 1172kW	**Boiler HP**	116.52
Output BTU/hr.	3,900,000 / 1143kW	**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 Htg Surface	402.93 Sq. Ft. / 37.43 Sq. M.	**Design Data**	Max. 160 psig & 210°F
		Water Volume	41.3 gal. / 156.3 Liters
ASME Sect IV Water Side Htg Surface	371.25 Sq. Ft. / 34.49 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				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

Flow GPM (Boiler)		Temp. Rise (˚F) (Boiler**)		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.

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 to 15) gpg			
Flow Rate		Pressure Drop		Flow Rate		Pressure Drop	
gpm	L/s	Ft	kPa	gpm	L/s	Ft	kPa
280.0	6.2	11.4	34.1	372.0	8.3	18.4	55.0

REP FIRM _____

SUBMITTED BY _____

JOB NAME _____

ARCHITECT _____

ENGINEER _____

CONTRACTOR _____

DATE _____

TORUS 4000 DUAL FUEL

Category II or Category IV Appliance

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TORUS 4000 DUAL FUEL

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CODE OPTIONS

CSD-1	FIRMWARE W/REMOTE TEST MANUAL RESET LWCO

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**	19.9*
Input BTU/hr.	4,000,000 / 1172kW	**Boiler HP**	116.52
Output BTU/hr.	3,892,000 / 1141kW	**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 Htg Surface	402.93 Sq. Ft. / 37.43 Sq. M.	**Design Data**	Max. 160 psig & 210°F
		Water Volume	41.3 gal. / 156.3 Liters
ASME Sect IV Water Side Htg Surface	371.25 Sq. Ft. / 34.49 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				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

Flow GPM (Boiler)		Temp. Rise (°F) (Boiler**)		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.

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 to 15) gpg			
Flow Rate		Pressure Drop		Flow Rate		Pressure Drop	
gpm	L/s	Ft	kPa	gpm	L/s	Ft	kPa
280.0	6.2	11.4	34.1	372.0	8.3	18.4	55.0

REP FIRM _____

SUBMITTED BY _____

JOB NAME _____

ARCHITECT _____

ENGINEER _____

CONTRACTOR _____

DATE _____

TORUS 4000 DUAL FUEL

Category II or Category IV Appliance

(see Installation and Operation Manual for venting information)

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