

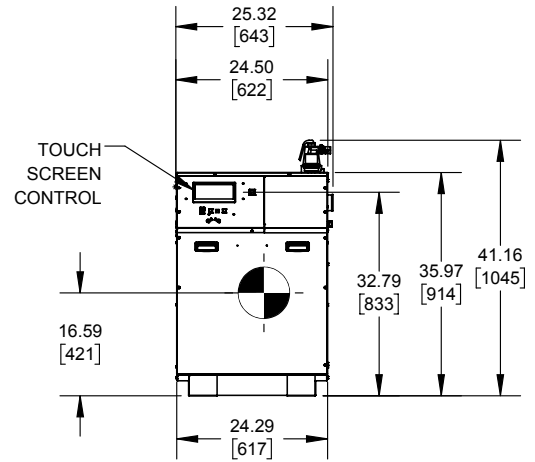
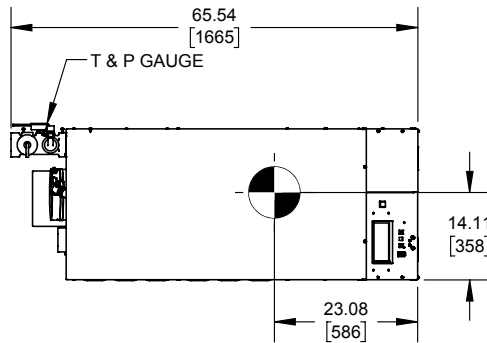
# TORUS 1251

## Category II or Category IV Appliance

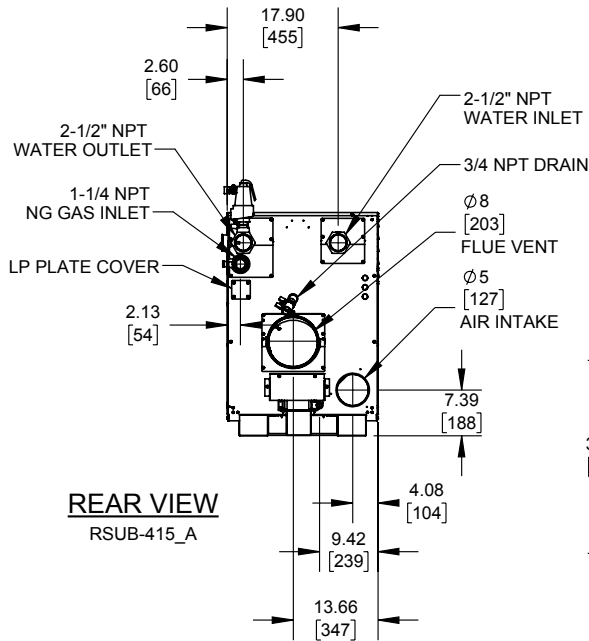
(see Installation and Operation Manual for venting information)

## INDOOR UNIT

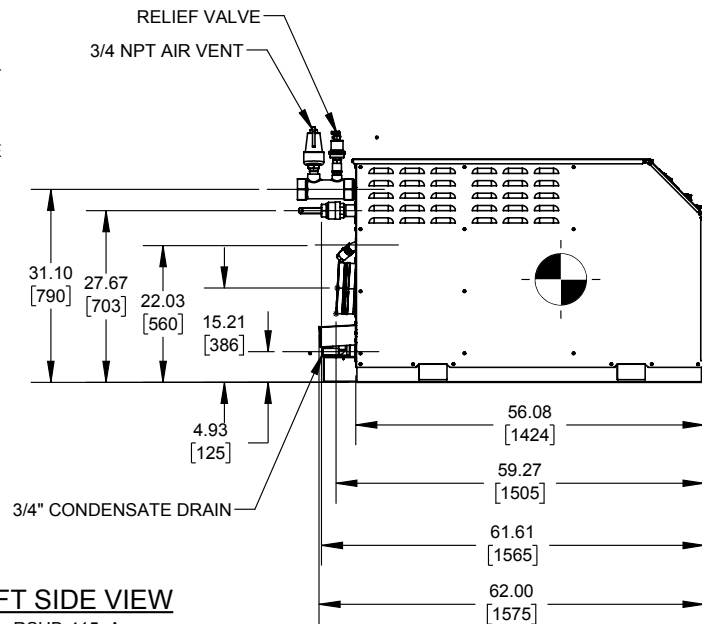
**TOP VIEW**  
RSUB-415\_A



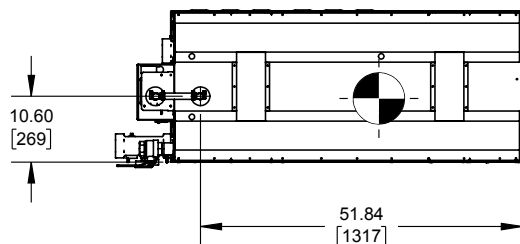
**FRONT VIEW**  
RSUB-415\_A



**REAR VIEW**  
RSUB-415\_A



**LEFT SIDE VIEW**  
RSUB-415\_A



**BOTTOM VIEW**  
RSUB-415\_A

### Notes:

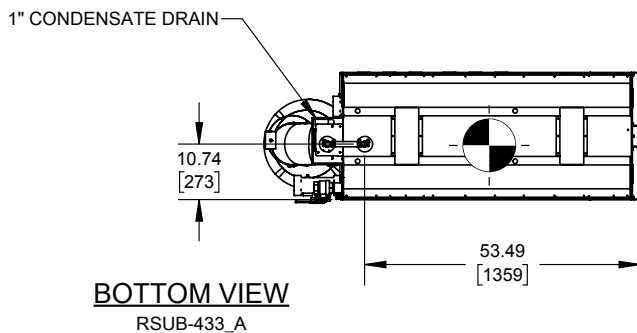
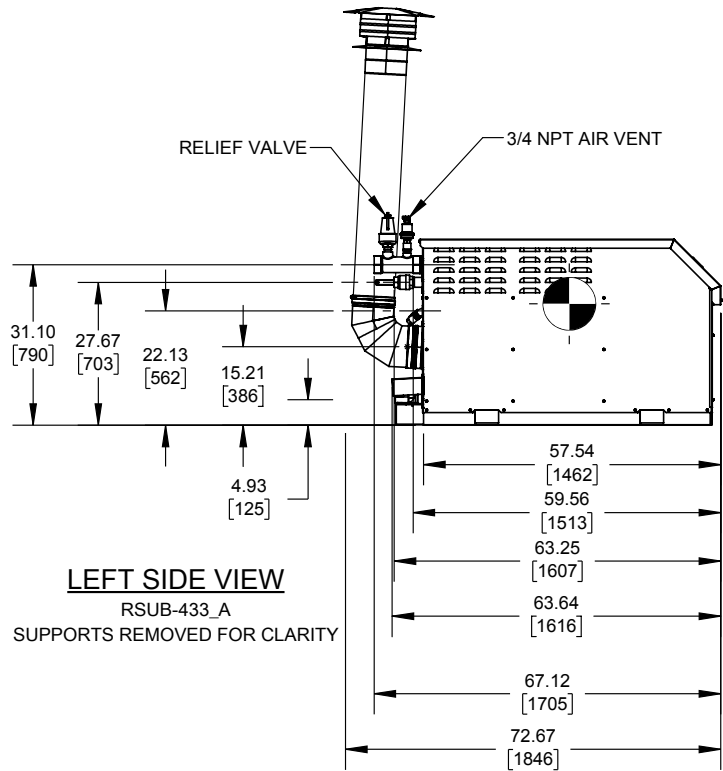
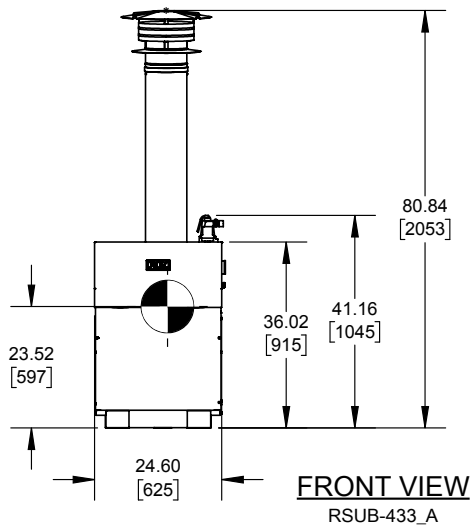
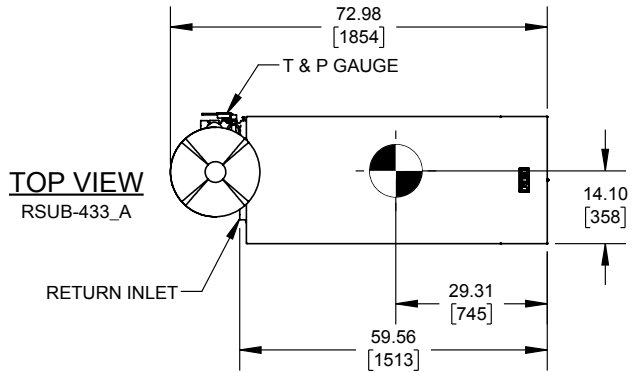
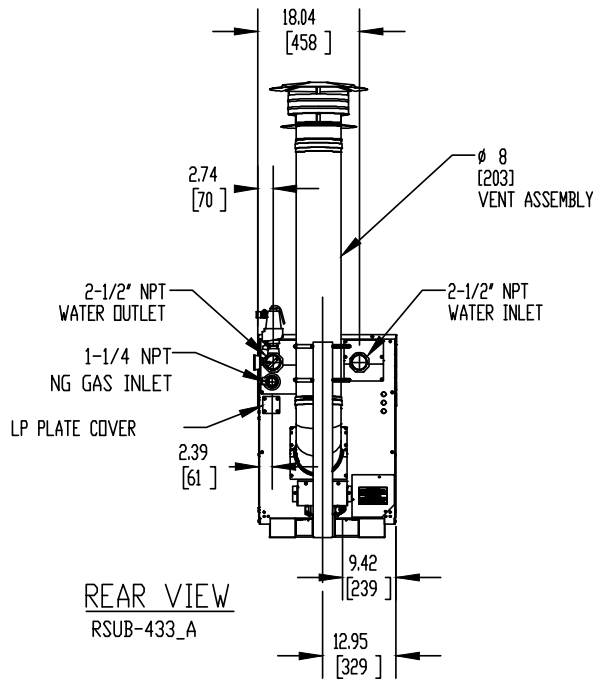
1. Dimensions are approximate and should not be used to "rough-in" equipment.
2. Dimensions are subject to change without notice.
3. All dimensions are in inches (mm).
4. Symbol indicates center of gravity.

# TORUS 1251

## 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                 | 12*             |
| Input BTU/hr.           | 1,250,000/366 kW    | Boiler HP                  | 36.7            |
| Output BTU/hr.          | 1,230,000/ 360kW    | Min. Gas Pressure Required | 4"W.C.          |
| Electrical Requirements | 120 VAC/60 Hz/1PH   | Max. Gas Pressure Allowed  | 14" W.C.        |
|                         |                     | Operating Weight           | 815 lbs /370 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  |
| 123.0             | 7.8 | 24.9          | 74.4 | 98.4                       | 6.2 | 15.9          | 47.6 | 82                       | 5.2 | 11.1          | 33.1 | 70.3                          | 4.4 | 4.4           | 24.3 | 61.5          | 3.9 | 6.2           | 18.7 |
| Flow GPM (Boiler) |     |               |      | Temp. Rise (°F) (Boiler**) |     |               |      | Vent Length (Equiv. Ft.) |     |               |      | Air Inlet Length (Equiv. Ft.) |     |               |      |               |     |               |      |
| Min               |     | Max           |      | Min                        |     | Max           |      | Min                      |     | Max           |      | Min                           |     | Max           |      |               |     |               |      |
| 61.5              |     | 123.0         |      | 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 |
| 3733 | 14110 | 2488 | 9407 | 1866 | 7055 | 1493  | 5644 | 1213  | 4585 | 1066  | 4031 |

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 |

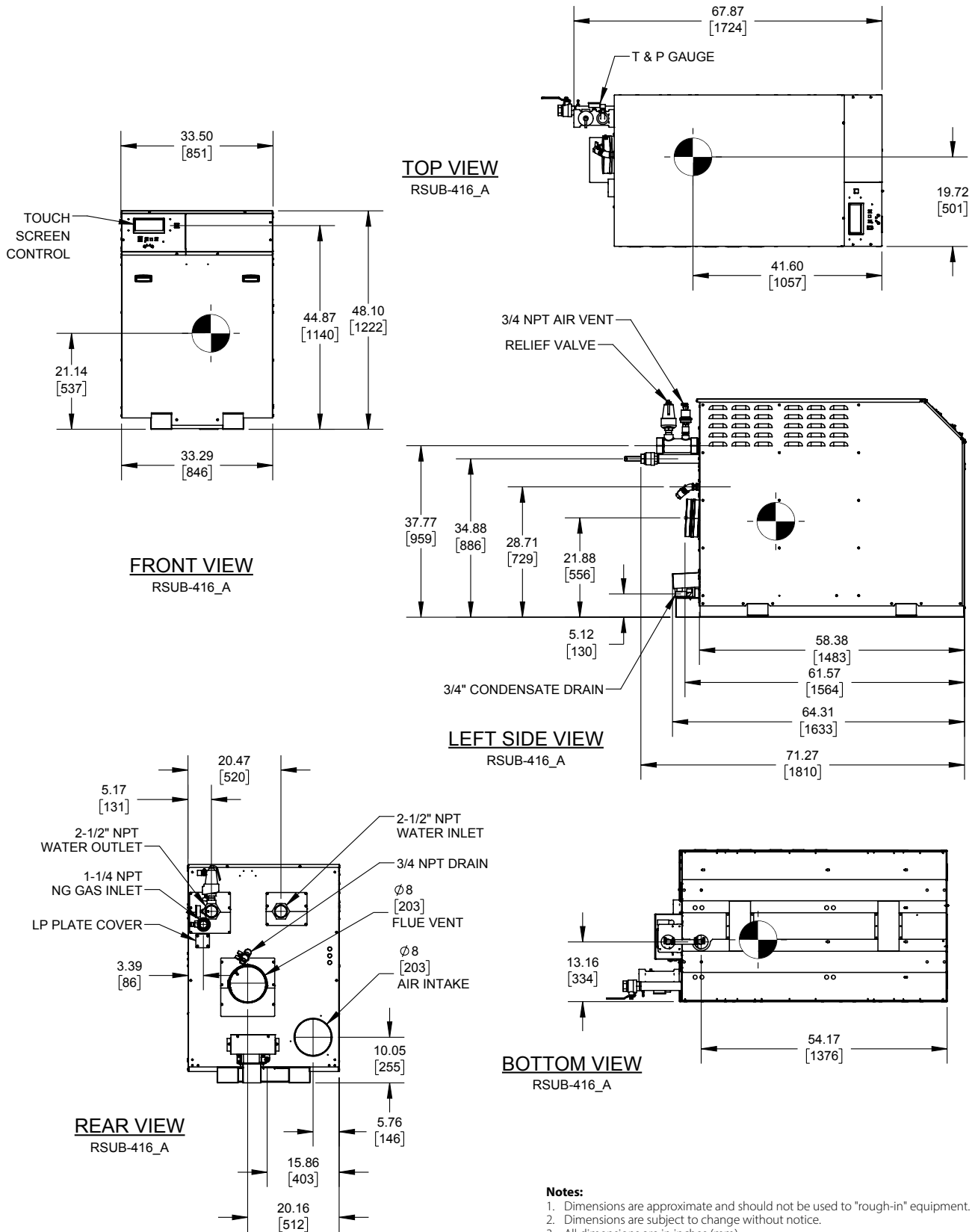
|              |       |                                                                                                                                                                                                                                                                                                                                         |
|--------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| REP FIRM     | _____ | <div>TORUS 1251</div> <div>Category II or Category IV Appliance</div> <div>(see Installation and Operation Manual for venting information)</div> <div>  <div> A Division of Mestek, Inc.<br/> Westfield, MA 01085<br/> (833) 265-5371 </div> </div> |
| SUBMITTED BY | _____ |                                                                                                                                                                                                                                                                                                                                         |
| JOB NAME     | _____ |                                                                                                                                                                                                                                                                                                                                         |
| ARCHITECT    | _____ |                                                                                                                                                                                                                                                                                                                                         |
| ENGINEER     | _____ |                                                                                                                                                                                                                                                                                                                                         |
| CONTRACTOR   | _____ |                                                                                                                                                                                                                                                                                                                                         |
| DATE         | _____ |                                                                                                                                                                                                                                                                                                                                         |

# TORUS 1501

## Category II or Category IV Appliance

(see Installation and Operation Manual for venting information)

## INDOOR UNIT

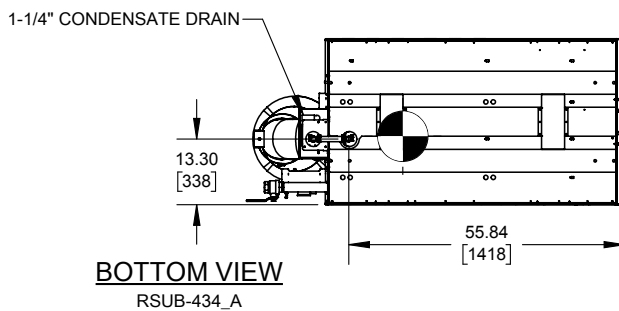
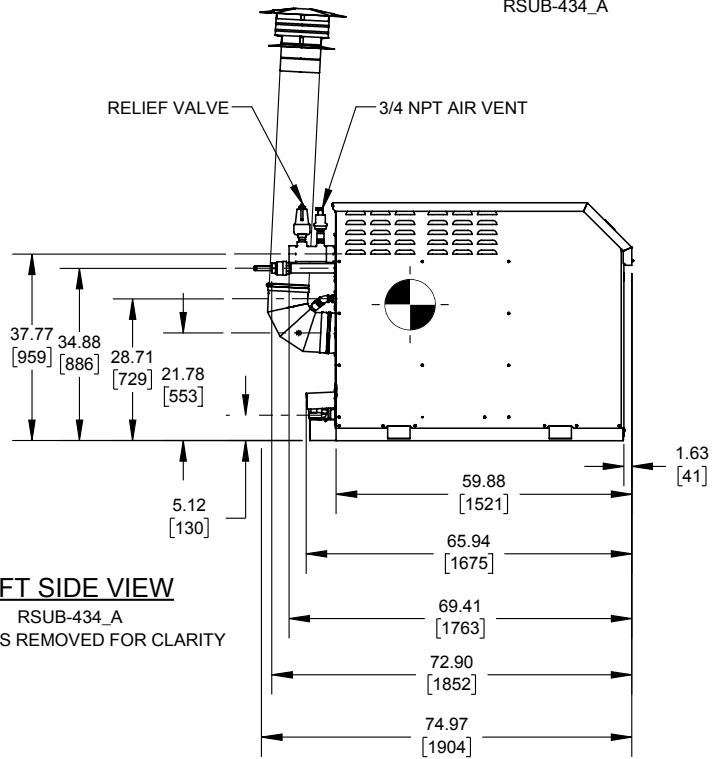
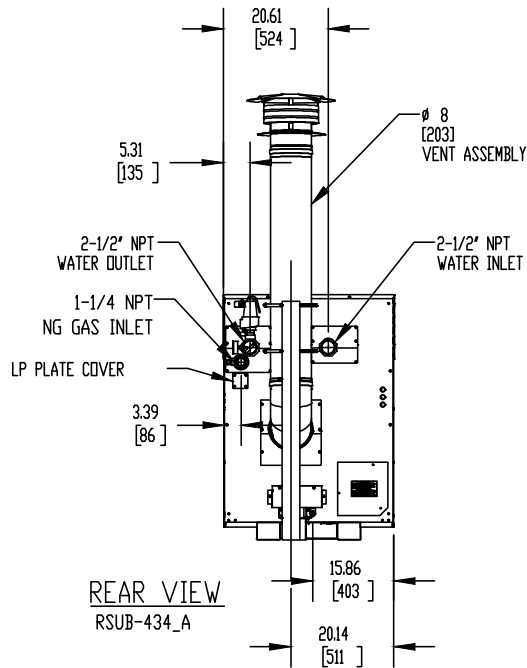
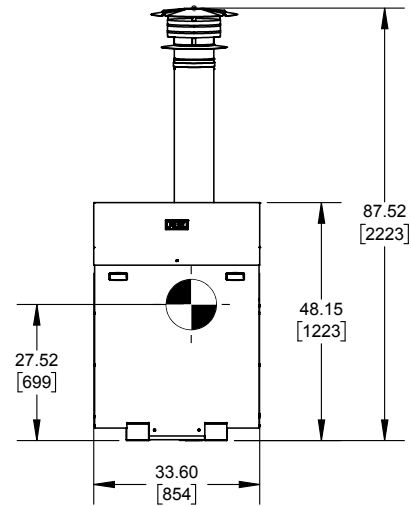
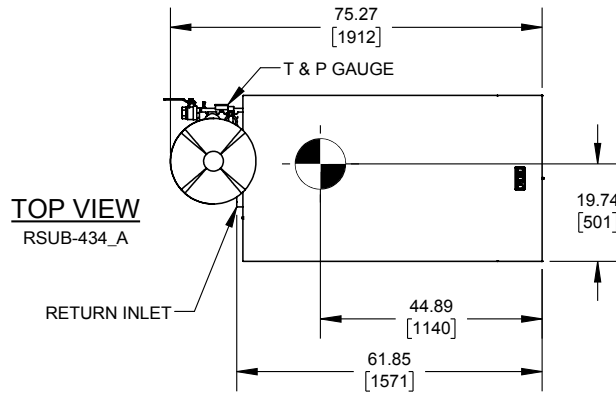


# TORUS 1501

## 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

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

## BOILER TRIM & CONTROLS

|                                                                           |               |                            |                          |
|---------------------------------------------------------------------------|---------------|----------------------------|--------------------------|
| <b>Main Gas Valve</b>                                                     | Dungs MBC     | <b>Air Switch</b>          | Huba                     |
| <b>Firing Valve</b>                                                       | 1-1/4" Apollo | <b>Flow Switch</b>         | SIKA                     |
| <b>Ignition Control</b>                                                   | Fenwal        | <b>Blocked Flue Switch</b> | Cleveland NS2            |
| <b>Operating Control</b>                                                  | HeatNet®      | <b>Blower Motor</b>        | Ametek                   |
| <b>High Limit</b>                                                         | Jumo          | <b>L.W.C.O.</b>            | Taco                     |
| <b>Main Ball Valve</b>                                                    | 1-1/4" Apollo | <b>Relief Valve (WB)</b>   | 1" x 1-1/4" set @ 50 psi |
| <b>Pump contactor strongly recommended for water heater applications.</b> |               | <b>Relief Valve (WW)</b>   | 1" x 1" set @ 125 psi    |

## A.S.M.E.

|                                            |                             |                     |                         |
|--------------------------------------------|-----------------------------|---------------------|-------------------------|
| <b>ASME Sect IV Fire Side Htg Surface</b>  | 98.6 Sq. Ft. / 9.16 Sq. M.  | <b>Design Data</b>  | Max. 160 psig & 210°F   |
|                                            |                             | <b>Water Volume</b> | 10.5 gal. / 39.7 Liters |
| <b>ASME Sect IV Water Side Htg Surface</b> | 89.33 Sq. Ft. / 8.30 Sq. M. | <b>pH Level</b>     | 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 |

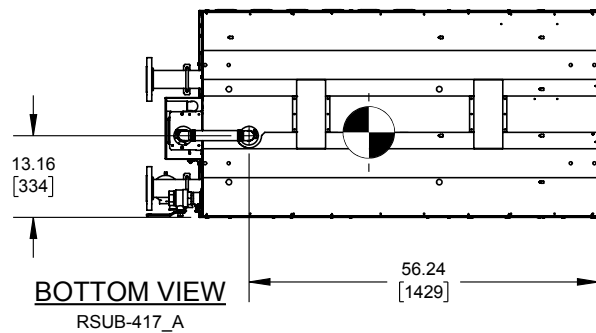
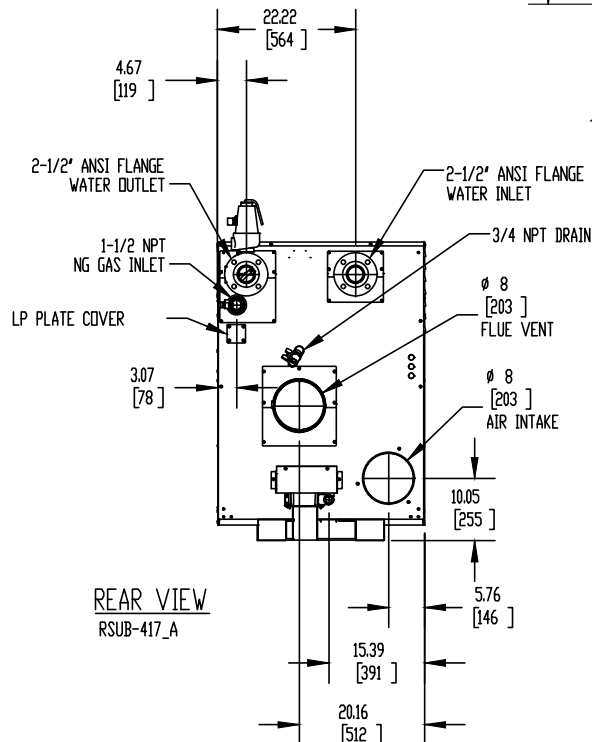
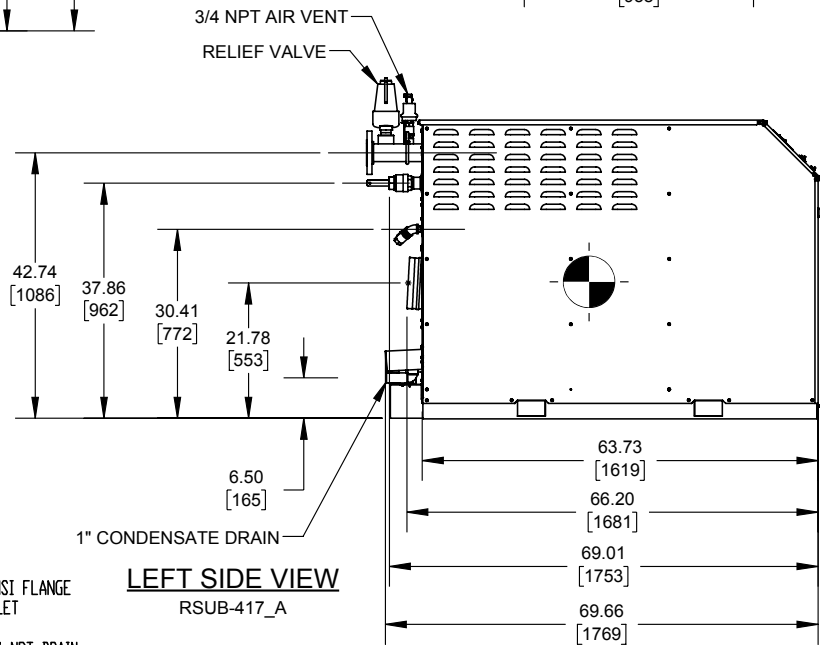
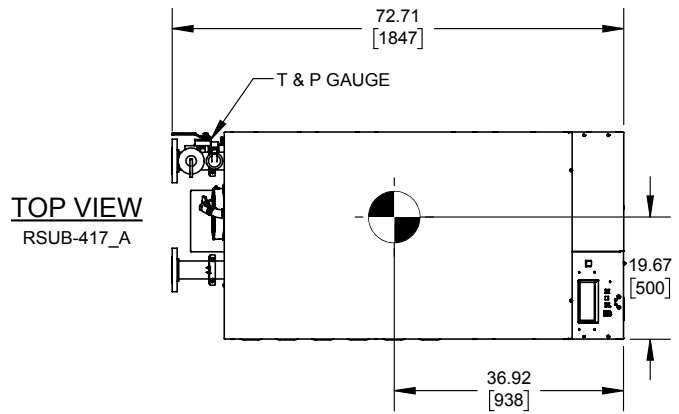
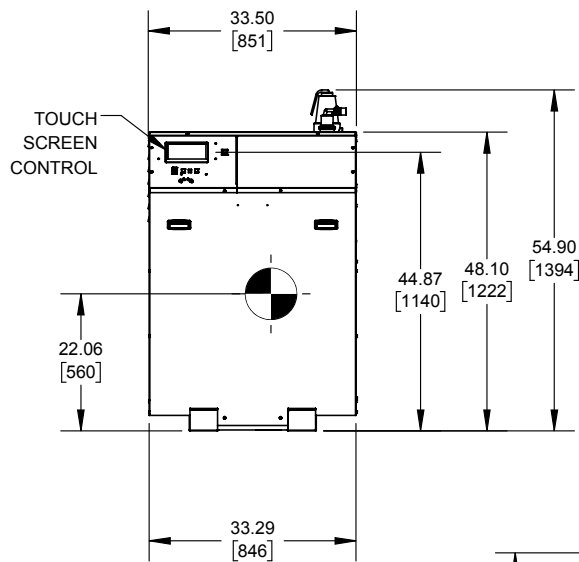
|                     |       |                                                                                                                         |
|---------------------|-------|-------------------------------------------------------------------------------------------------------------------------|
| <b>REP FIRM</b>     | _____ | <b>TORUS 1501</b>                                                                                                       |
| <b>SUBMITTED BY</b> | _____ |                                                                                                                         |
| <b>JOB NAME</b>     | _____ |                                                                                                                         |
| <b>ARCHITECT</b>    | _____ |                                                                                                                         |
| <b>ENGINEER</b>     | _____ |                                                                                                                         |
| <b>CONTRACTOR</b>   | _____ |                                                                                                                         |
| <b>DATE</b>         | _____ | <b>Category II or Category IV Appliance</b><br>(see Installation and Operation Manual for venting information)          |
|                     |       |  <b>RELIABLE. BOLD. INNOVATIVE.</b> |
|                     |       | A Division of Mestek, Inc.<br>Westfield, MA 01085<br>((833) 265-5371                                                    |

# TORUS 1751

## Category II or Category IV Appliance

(see Installation and Operation Manual for venting information)

## INDOOR UNIT



### Notes:

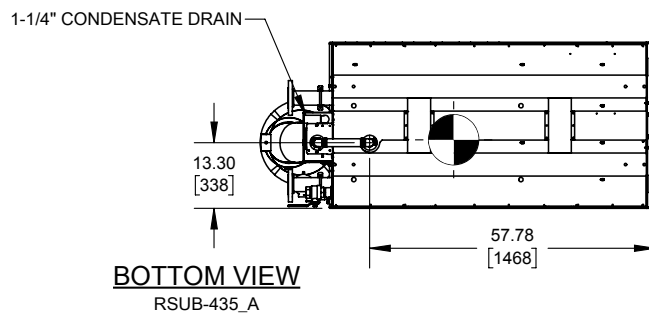
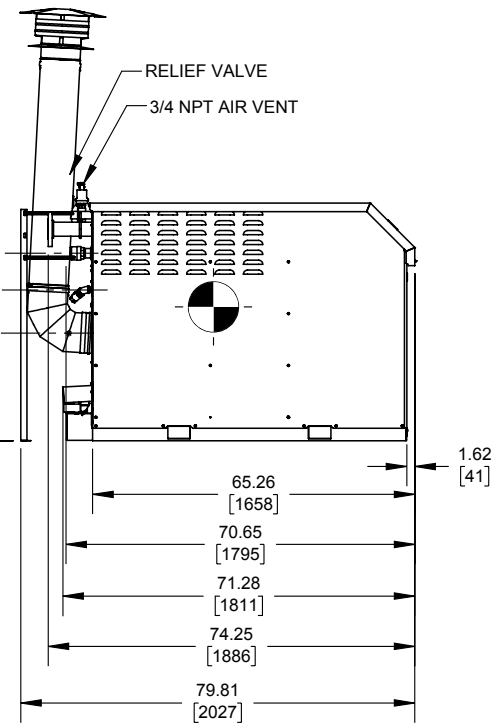
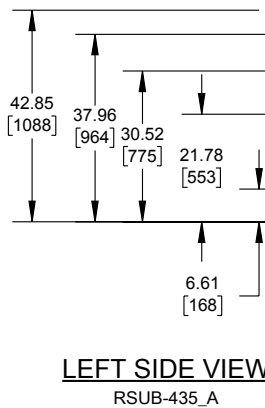
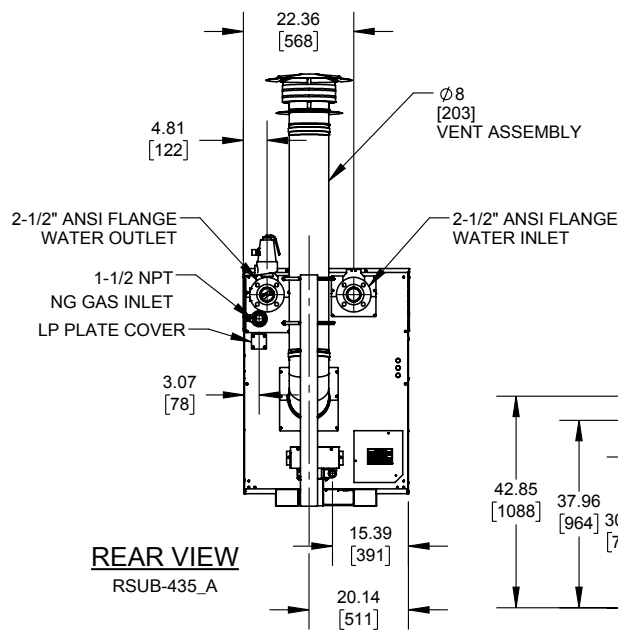
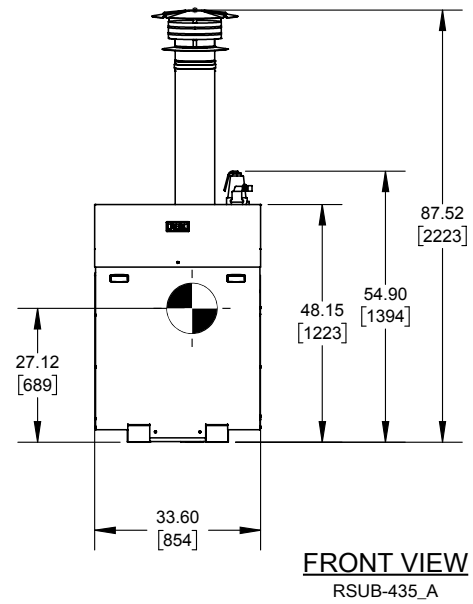
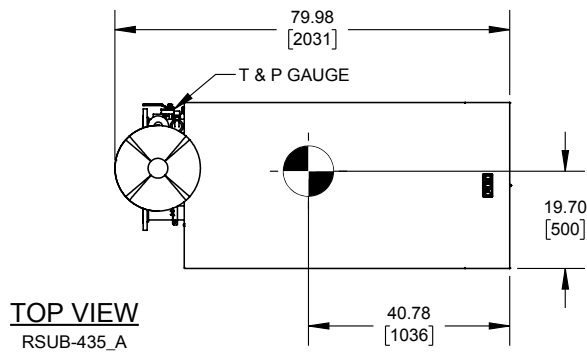
1. Dimensions are approximate and should not be used to "rough-in" equipment.
2. Dimensions are subject to change without notice.
3. All dimensions are in inches (mm).
4. Symbol indicates center of gravity.

# TORUS 1751

## 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

|                                |                      |                                   |                 |
|--------------------------------|----------------------|-----------------------------------|-----------------|
| <b>Fuel Type</b>               | Natural/Propane Gas  | <b>Boiler FLA</b>                 | 12*             |
| <b>Input BTU/hr.</b>           | 1,750,000/513 kW     | <b>Boiler HP</b>                  | 51.6            |
| <b>Output BTU/hr.</b>          | 1,727,250/506 kW     | <b>Min. Gas Pressure Required</b> | 4"W.C.          |
| <b>Electrical Requirements</b> | 208-230VAC/60 Hz/1PH | <b>Max. Gas Pressure Allowed</b>  | 14" W.C.        |
|                                |                      | <b>Operating Weight</b>           | 1285 lbs/583 kg |

## BOILER TRIM & CONTROLS

|                                                                           |               |                            |                          |
|---------------------------------------------------------------------------|---------------|----------------------------|--------------------------|
| <b>Main Gas Valve</b>                                                     | Dungs MBC     | <b>Air Switch</b>          | Huba                     |
| <b>Firing Valve</b>                                                       | 1-1/2" Apollo | <b>Flow Switch</b>         | SIKA                     |
| <b>Ignition Control</b>                                                   | Fenwal        | <b>Blocked Flue Switch</b> | Cleveland NS2            |
| <b>Operating Control</b>                                                  | HeatNet®      | <b>Blower Motor</b>        | Ametek                   |
| <b>High Limit</b>                                                         | Jumo          | <b>L.W.C.O.</b>            | Taco                     |
| <b>Main Ball Valve</b>                                                    | 1-1/2" Apollo | <b>Relief Valve (WB)</b>   | 1" x 1-1/4" set @ 50 psi |
| <b>Pump contactor strongly recommended for water heater applications.</b> |               | <b>Relief Valve (WW)</b>   | 1" x 1" set @ 125 psi    |

## A.S.M.E.

|                                            |                              |                     |                         |
|--------------------------------------------|------------------------------|---------------------|-------------------------|
| <b>ASME Sect IV Fire Side Htg Surface</b>  | 153.2Sq. Ft. / 14.23 Sq. M.  | <b>Design Data</b>  | Max. 160 psig & 210°F   |
|                                            |                              | <b>Water Volume</b> | 16.2 gal. / 61.3 Liters |
| <b>ASME Sect IV Water Side Htg Surface</b> | 141.9 Sq. Ft. / 13.18 Sq. M. | <b>pH Level</b>     | 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  |
| 172.8             | 10.9 | 17.8          | 53.3 | 138.2                      | 8.7 | 11.4          | 34.1 | 115.2                    | 7.3 | 7.9           | 23.7 | 98.7                          | 6.2 | 5.8           | 17.4 | 86.4          | 5.5 | 4.5           | 13.4 |
| Flow GPM (Boiler) |      |               |      | Temp. Rise (°F) (Boiler**) |     |               |      | Vent Length (Equiv. Ft.) |     |               |      | Air Inlet Length (Equiv. Ft.) |     |               |      |               |     |               |      |
| Min               |      | Max           |      | Min                        |     | Max           |      | Min                      |     | Max           |      | Min                           |     | Max           |      |               |     |               |      |
| 86.4              |      | 172.8         |      | 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 |
| 5095 | 19257 | 3396 | 12838 | 2547 | 9629 | 2038  | 7703 | 1698  | 6419 | 1456  | 5502 |

### 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  |
| 153.5                | 9.7 | 14.1          | 42.1 | 204.6               | 12.9 | 25            | 74.7 |

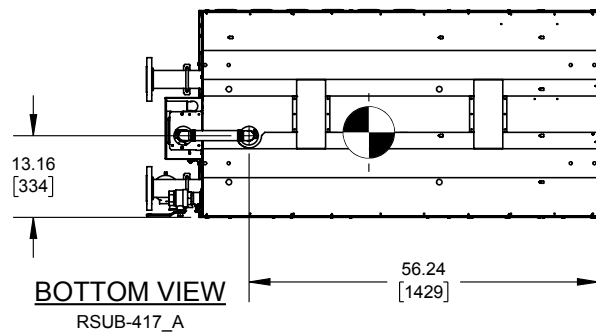
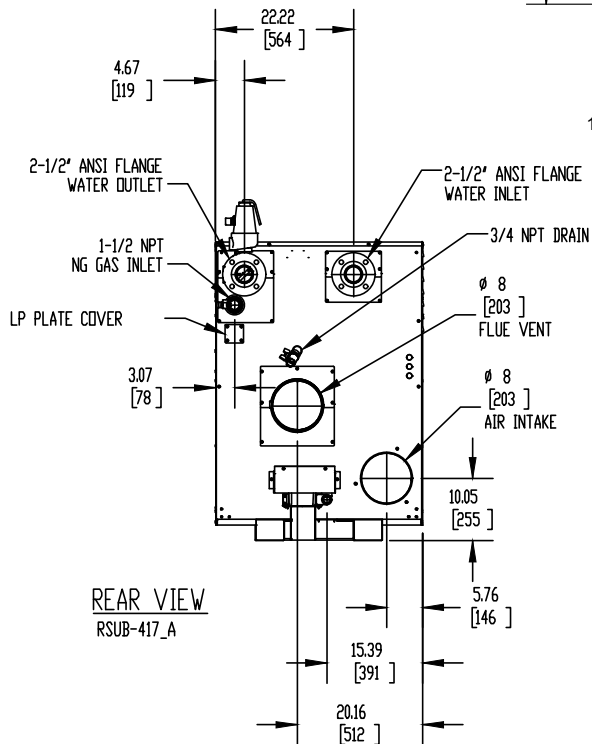
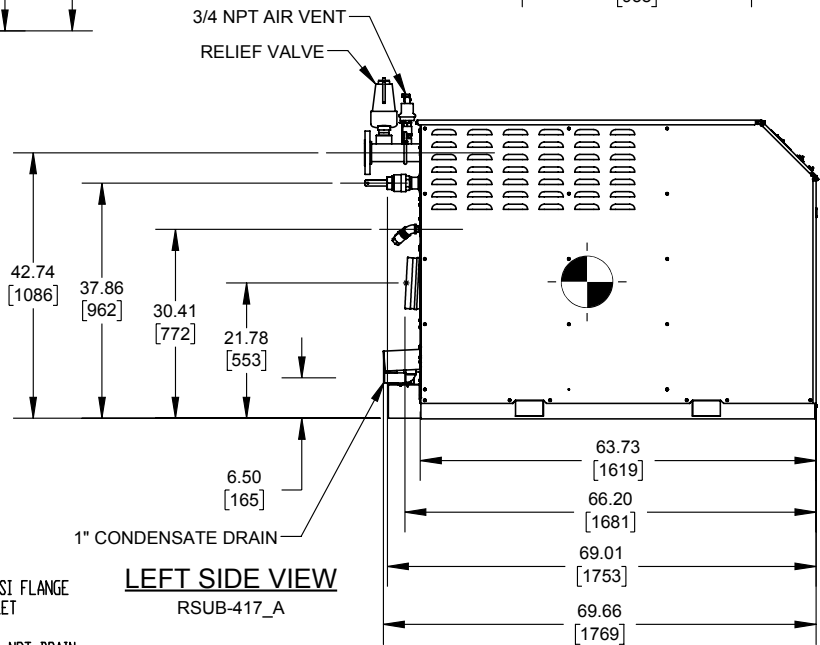
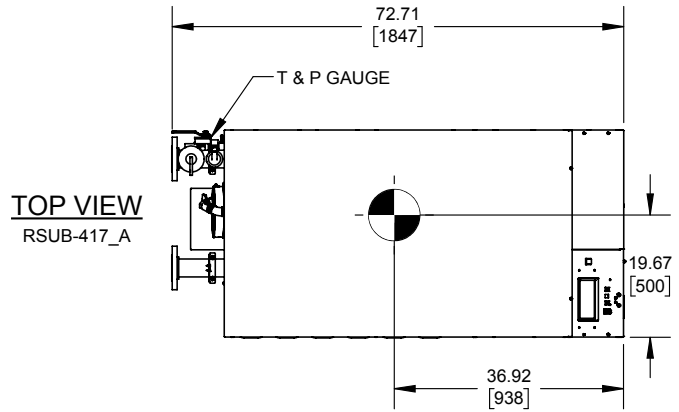
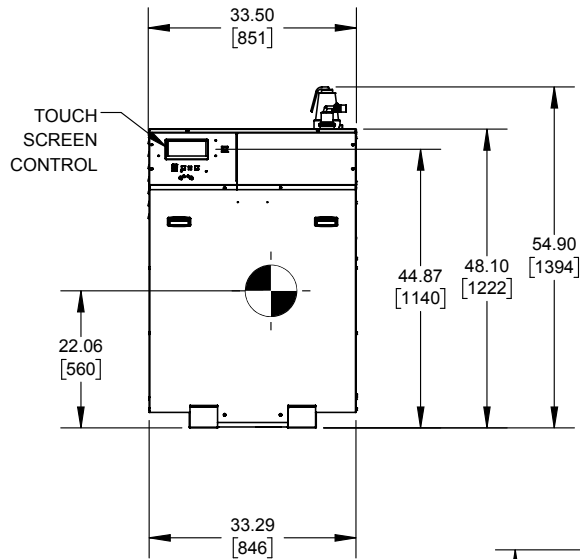
|                     |       |                                                                                                                         |
|---------------------|-------|-------------------------------------------------------------------------------------------------------------------------|
| <b>REP FIRM</b>     | _____ | <b>TORUS 1751</b>                                                                                                       |
| <b>SUBMITTED BY</b> | _____ |                                                                                                                         |
| <b>JOB NAME</b>     | _____ |                                                                                                                         |
| <b>ARCHITECT</b>    | _____ |                                                                                                                         |
| <b>ENGINEER</b>     | _____ |                                                                                                                         |
| <b>CONTRACTOR</b>   | _____ |                                                                                                                         |
| <b>DATE</b>         | _____ | <b>Category II or Category IV Appliance</b><br>(see Installation and Operation Manual for venting information)          |
|                     |       |  <b>RELIABLE. BOLD. INNOVATIVE.</b> |
|                     |       | A Division of Mestek, Inc.<br>Westfield, MA 01085<br>((833) 265-5371                                                    |

# TORUS 2001

## Category II or Category IV Appliance

(see Installation and Operation Manual for venting information)

## INDOOR UNIT



### Notes:

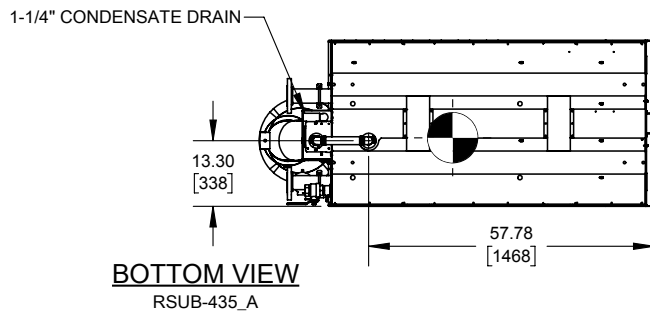
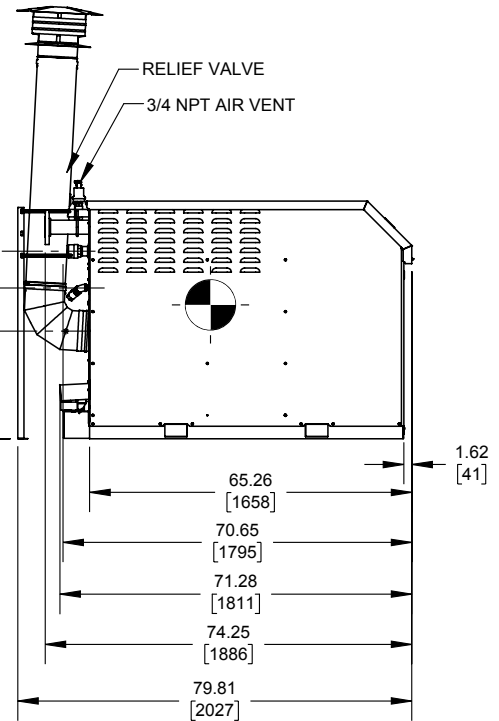
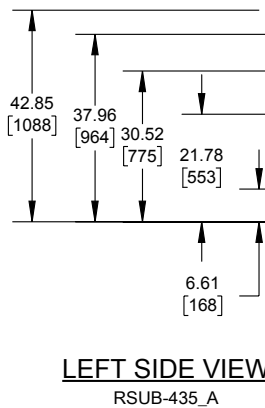
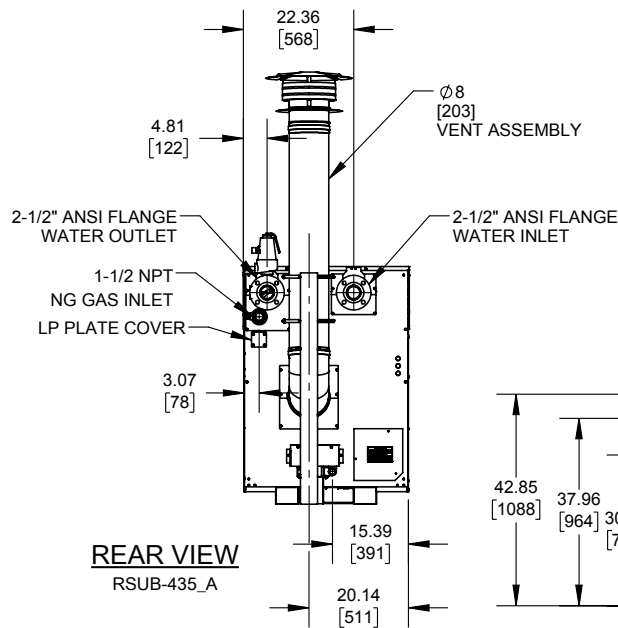
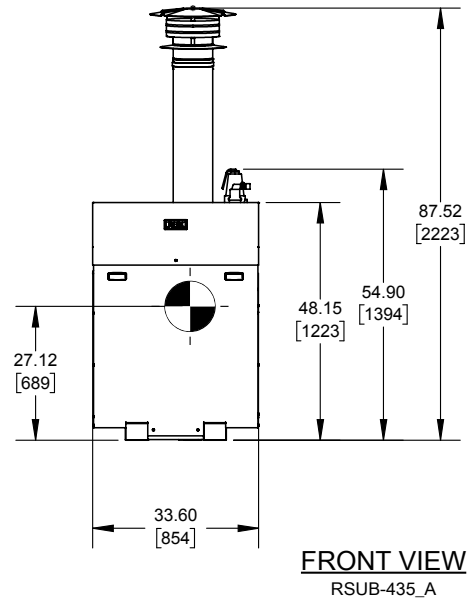
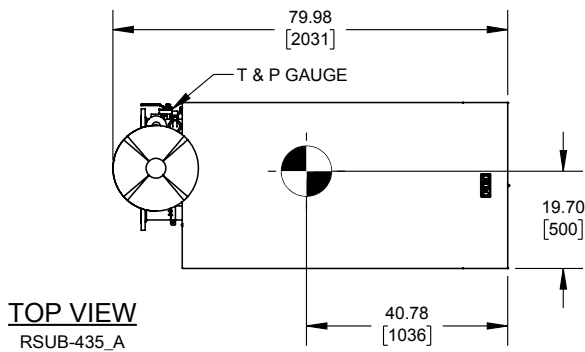
1. Dimensions are approximate and should not be used to "rough-in" equipment.
2. Dimensions are subject to change without notice.
3. All dimensions are in inches (mm).
4. Symbol indicates center of gravity.

# TORUS 2001

## 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

|                                |                      |                                   |                 |
|--------------------------------|----------------------|-----------------------------------|-----------------|
| <b>Fuel Type</b>               | Natural/Propane Gas  | <b>Boiler FLA</b>                 | 12*             |
| <b>Input BTU/hr.</b>           | 1,999,000/586 kW     | <b>Boiler HP</b>                  | 58.8            |
| <b>Output BTU/hr.</b>          | 1,967,016/576 kW     | <b>Min. Gas Pressure Required</b> | 4"W.C.          |
| <b>Electrical Requirements</b> | 208-230VAC/60 Hz/1PH | <b>Max. Gas Pressure Allowed</b>  | 14" W.C.        |
|                                |                      | <b>Operating Weight</b>           | 1285 lbs/583 kg |

## BOILER TRIM & CONTROLS

|                                                                           |               |                            |                          |
|---------------------------------------------------------------------------|---------------|----------------------------|--------------------------|
| <b>Main Gas Valve</b>                                                     | Dungs MBC     | <b>Air Switch</b>          | Huba                     |
| <b>Firing Valve</b>                                                       | 1-1/2" Apollo | <b>Flow Switch</b>         | SIKA                     |
| <b>Ignition Control</b>                                                   | Fenwal        | <b>Blocked Flue Switch</b> | Cleveland NS2            |
| <b>Operating Control</b>                                                  | HeatNet®      | <b>Blower Motor</b>        | Ametek                   |
| <b>High Limit</b>                                                         | Jumo          | <b>L.W.C.O.</b>            | Taco                     |
| <b>Main Ball Valve</b>                                                    | 1-1/2" Apollo | <b>Relief Valve (WB)</b>   | 1" x 1-1/4" set @ 50 psi |
| <b>Pump contactor strongly recommended for water heater applications.</b> |               | <b>Relief Valve (WW)</b>   | 1" x 1" set @ 125 psi    |

## A.S.M.E.

|                                            |                              |                     |                         |
|--------------------------------------------|------------------------------|---------------------|-------------------------|
| <b>ASME Sect IV Fire Side Htg Surface</b>  | 153.2 Sq. Ft. / 14.23 Sq. M. | <b>Design Data</b>  | Max. 160 psig & 210°F   |
|                                            |                              | <b>Water Volume</b> | 16.2 gal. / 61.3 Liters |
| <b>ASME Sect IV Water Side Htg Surface</b> | 141.9 Sq. Ft. / 13.18 Sq. M. | <b>pH Level</b>     | 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  |
| 196.8             | 12.4 | 23.1          | 69.2 | 157.4                      | 9.9 | 14.8          | 44.2 | 131.2                    | 8.3 | 10.3          | 30.7 | 112.4                         | 7.1 | 7.6           | 22.6 | 98.4          | 6.2 | 5.8           | 17.3 |
| Flow GPM (Boiler) |      |               |      | Temp. Rise (°F) (Boiler**) |     |               |      | Vent Length (Equiv. Ft.) |     |               |      | Air Inlet Length (Equiv. Ft.) |     |               |      |               |     |               |      |
| Min               |      | Max           |      | Min                        |     | Max           |      | Min                      |     | Max           |      | Min                           |     | Max           |      |               |     |               |      |
| 98.4              |      | 196.8         |      | 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 |
| 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  |
| 153.5                | 9.7 | 14.1          | 42.1 | 204.6               | 12.9 | 25            | 74.7 |

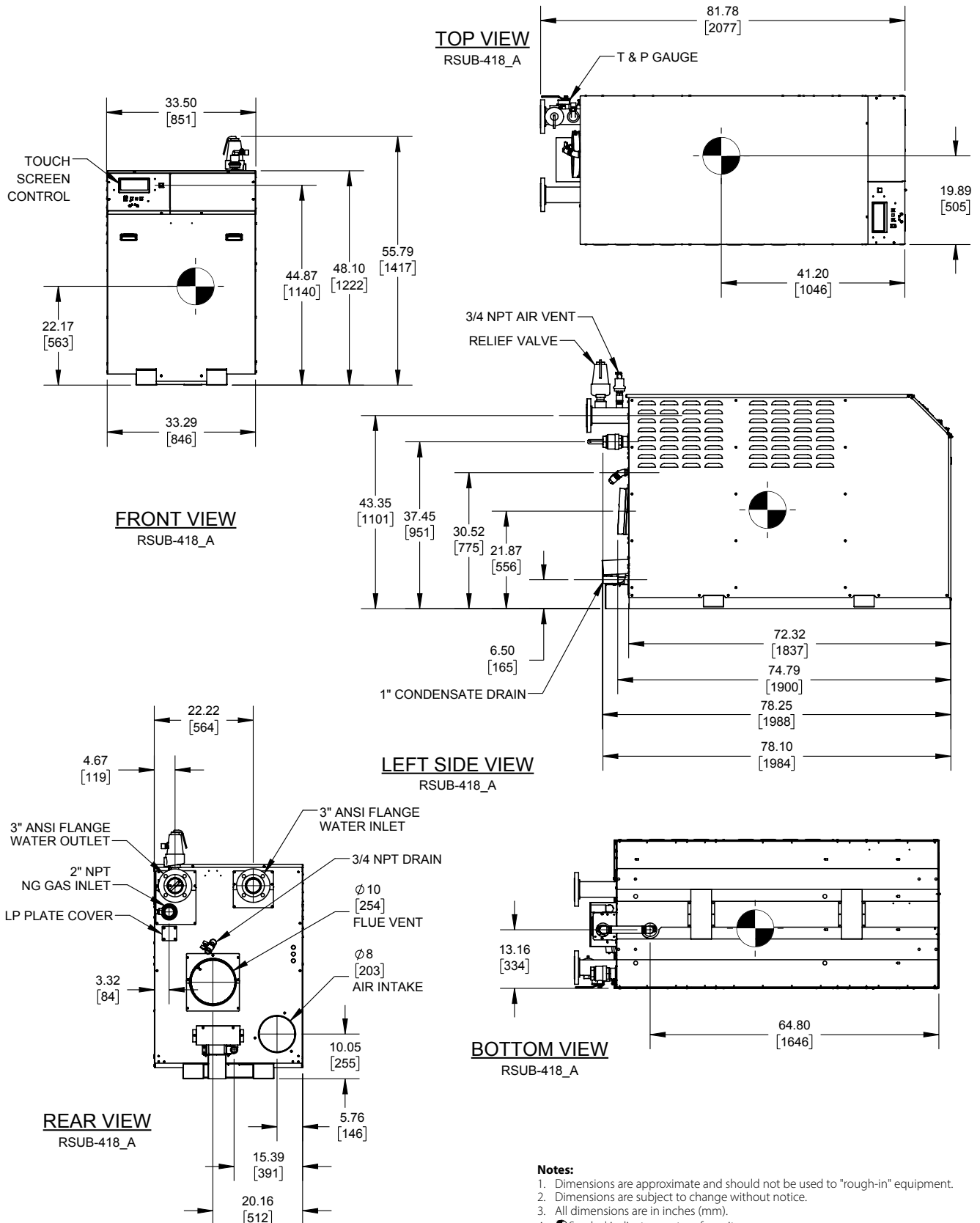
|                     |       |                                                                                                                         |
|---------------------|-------|-------------------------------------------------------------------------------------------------------------------------|
| <b>REP FIRM</b>     | _____ | <b>TORUS 2001</b>                                                                                                       |
| <b>SUBMITTED BY</b> | _____ |                                                                                                                         |
| <b>JOB NAME</b>     | _____ |                                                                                                                         |
| <b>ARCHITECT</b>    | _____ |                                                                                                                         |
| <b>ENGINEER</b>     | _____ |                                                                                                                         |
| <b>CONTRACTOR</b>   | _____ |                                                                                                                         |
| <b>DATE</b>         | _____ | <b>Category II or Category IV Appliance</b><br>(see Installation and Operation Manual for venting information)          |
|                     |       |  <b>RELIABLE. BOLD. INNOVATIVE.</b> |
|                     |       | A Division of Mestek, Inc.<br>Westfield, MA 01085<br>((833) 265-5371                                                    |

# TORUS 2501

## Category II or Category IV Appliance

(see Installation and Operation Manual for venting information)

## INDOOR UNIT

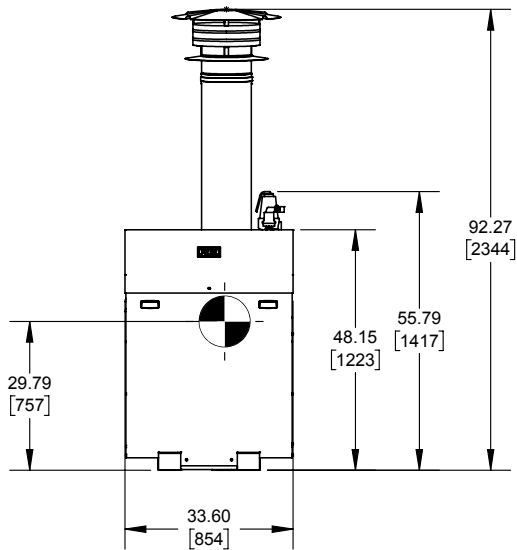


# TORUS 2501

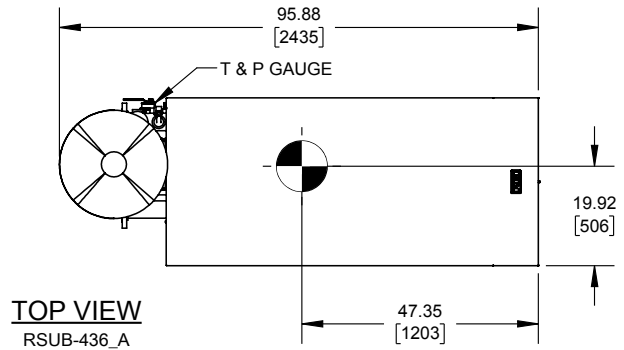
## Category II or Category IV Appliance

(see Installation and Operation Manual for venting information)

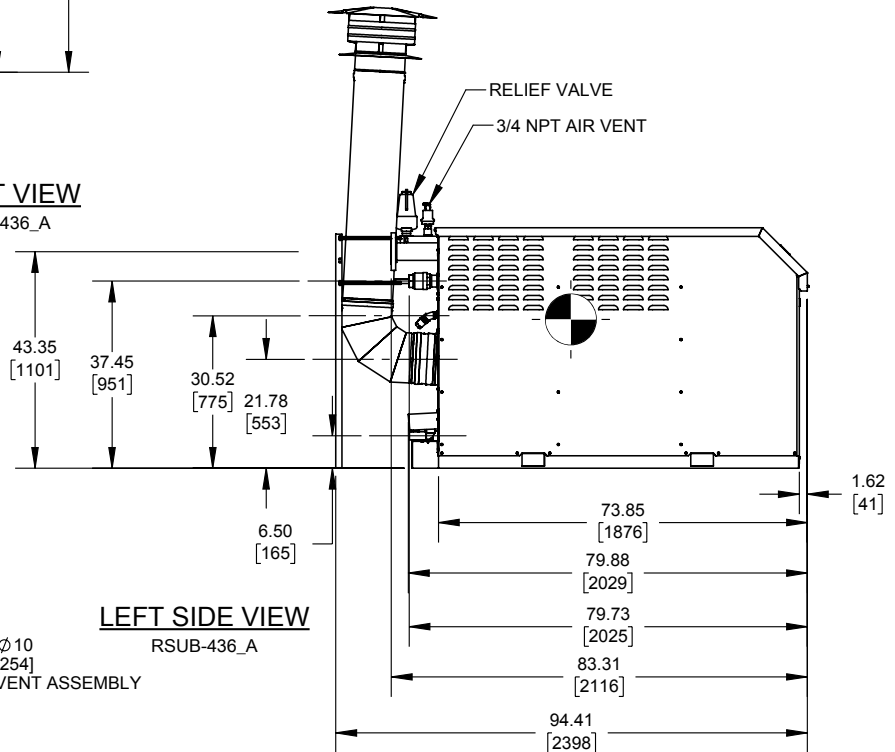
## OUTDOOR UNIT



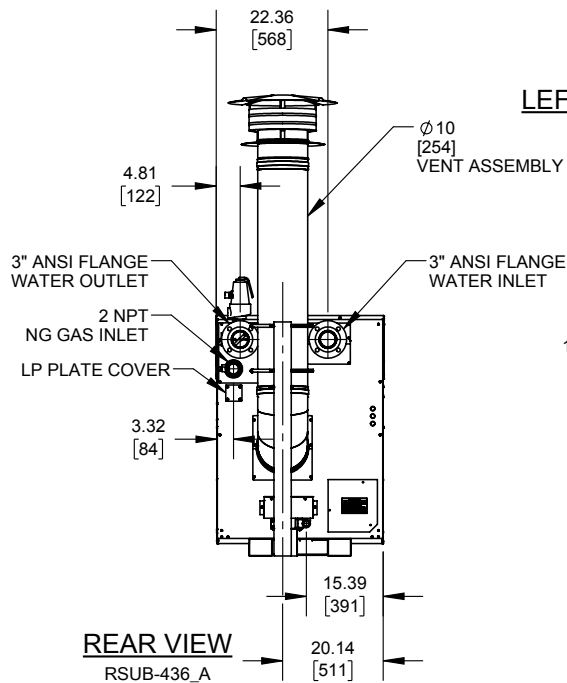
**FRONT VIEW**  
RSUB-436\_A



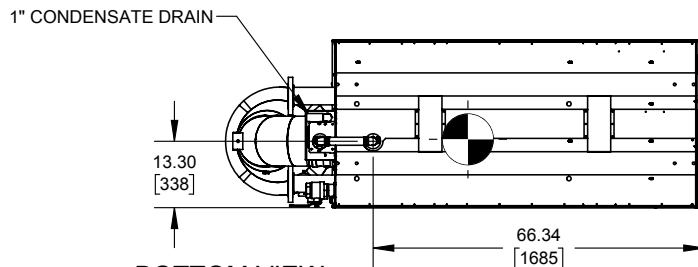
**TOP VIEW**  
RSUB-436\_A



**LEFT SIDE VIEW**  
RSUB-436\_A



**REAR VIEW**  
RSUB-436\_A



**BOTTOM VIEW**  
RSUB-436\_A

### 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

|                                |                       |                                   |                 |
|--------------------------------|-----------------------|-----------------------------------|-----------------|
| <b>Fuel Type</b>               | Natural/Propane Gas   | <b>Boiler FLA</b>                 | 12*             |
| <b>Input BTU/hr.</b>           | 2,500,000/733 kW      | <b>Boiler HP</b>                  | 71.9            |
| <b>Output BTU/hr.</b>          | 2,405,000/705 kW      | <b>Min. Gas Pressure Required</b> | 4"W.C.          |
| <b>Electrical Requirements</b> | 208-230 VAC/60 Hz/3PH | <b>Max. Gas Pressure Allowed</b>  | 14" W.C.        |
|                                |                       | <b>Operating Weight</b>           | 1565 lbs/710 kg |

## BOILER TRIM & CONTROLS

|                                                                           |           |                            |                               |
|---------------------------------------------------------------------------|-----------|----------------------------|-------------------------------|
| <b>Main Gas Valve</b>                                                     | Dungs MBC | <b>Air Switch</b>          | Huba                          |
| <b>Firing Valve</b>                                                       | 2" Apollo | <b>Flow Switch</b>         | SIKA                          |
| <b>Ignition Control</b>                                                   | Fenwal    | <b>Blocked Flue Switch</b> | Cleveland NS2                 |
| <b>Operating Control</b>                                                  | HeatNet®  | <b>Blower Motor</b>        | Ametek                        |
| <b>High Limit</b>                                                         | Jumo      | <b>L.W.C.O.</b>            | Taco                          |
| <b>Main Ball Valve</b>                                                    | 2" Apollo | <b>Relief Valve (WB)</b>   | 1-1/4" x 1-1/2" set @ 50 psi  |
| <b>Pump contactor strongly recommended for water heater applications.</b> |           | <b>Relief Valve (WW)</b>   | 1-1/2" x 1-1/2" set @ 125 psi |

## A.S.M.E.

|                                            |                             |                     |                        |
|--------------------------------------------|-----------------------------|---------------------|------------------------|
| <b>ASME Sect IV Fire Side Htg Surface</b>  | 188.5 Sq. Ft. /17.5 Sq. M.  | <b>Design Data</b>  | Max. 160 psig & 210°F  |
|                                            |                             | <b>Water Volume</b> | 19.8 gal. /75.0 Liters |
| <b>ASME Sect IV Water Side Htg Surface</b> | 175.0 Sq. Ft. / 16.3 Sq. M. | <b>pH Level</b>     | 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  |
| 240.6             | 15.2 | 21.5          | 64.2 | 192.5                      | 12.1 | 13.7          | 41.0 | 160.4                    | 10.1 | 9.5           | 28.5 | 137.5                         | 8.7 | 7.0           | 20.9 | 120.3         | 7.6 | 5.4           | 16.0 |
| Flow GPM (Boiler) |      |               |      | Temp. Rise (°F) (Boiler**) |      |               |      | Vent Length (Equiv. Ft.) |      |               |      | Air Inlet Length (Equiv. Ft.) |     |               |      |               |     |               |      |
| Min               |      | Max           |      | Min                        |      | Max           |      | Min                      |      | Max           |      | Min                           |     | Max           |      |               |     |               |      |
| 120.3             |      | 240.6         |      | 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 |
| 7405 | 27993 | 4937 | 18662 | 3703 | 13996 | 2962  | 11197 | 2468  | 9331 | 2116  | 7998 |

### 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   |
| 233.3                | 14.7 | 20.2          | 60.4 | 319.2               | 20.1 | 37.9          | 113.3 |

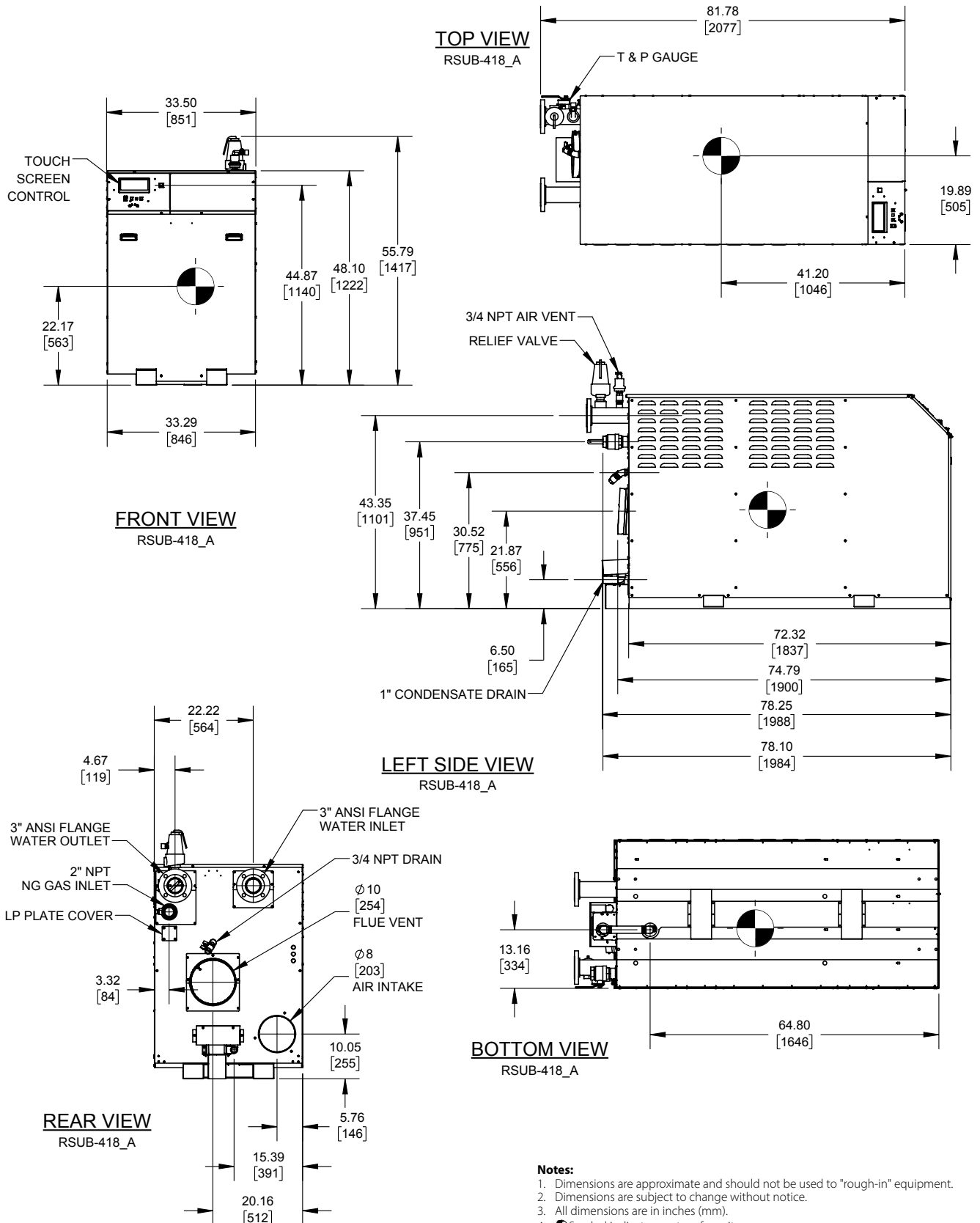
|                     |       |                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>REP FIRM</b>     | _____ | <div><b>TORUS 2501</b></div> <div><b>Category II or Category IV Appliance</b><br/>(see Installation and Operation Manual for venting information)</div> <div>  <b>RELIABLE. BOLD. INNOVATIVE.</b> </div> <div>A Division of Mestek, Inc.<br/>Westfield, MA 01085<br/>(833) 265-5371</div> |
| <b>SUBMITTED BY</b> | _____ |                                                                                                                                                                                                                                                                                                                                                                               |
| <b>JOB NAME</b>     | _____ |                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ARCHITECT</b>    | _____ |                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ENGINEER</b>     | _____ |                                                                                                                                                                                                                                                                                                                                                                               |
| <b>CONTRACTOR</b>   | _____ |                                                                                                                                                                                                                                                                                                                                                                               |
| <b>DATE</b>         | _____ |                                                                                                                                                                                                                                                                                                                                                                               |

# TORUS 3001

## Category II or Category IV Appliance

(see Installation and Operation Manual for venting information)

## INDOOR UNIT

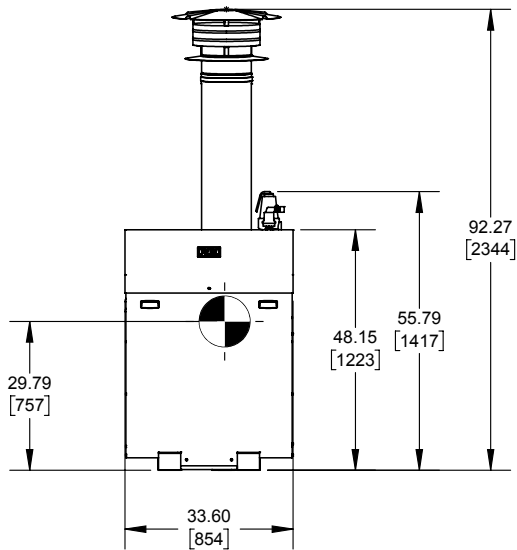


# TORUS 3001

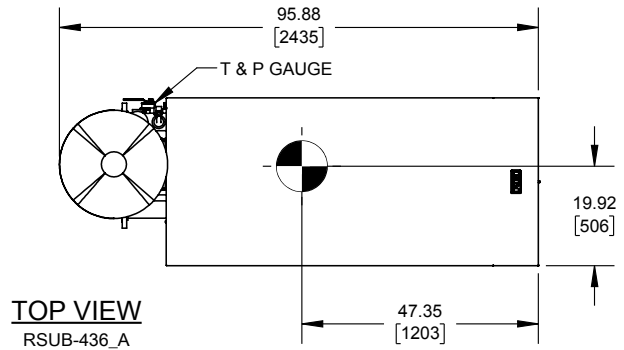
## Category II or Category IV Appliance

(see Installation and Operation Manual for venting information)

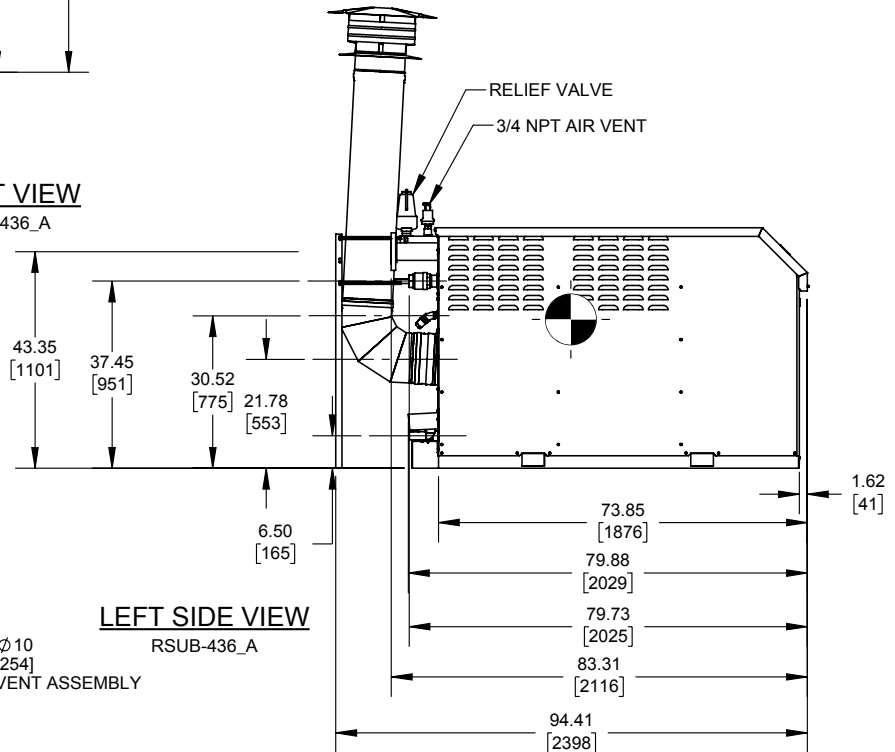
## OUTDOOR UNIT



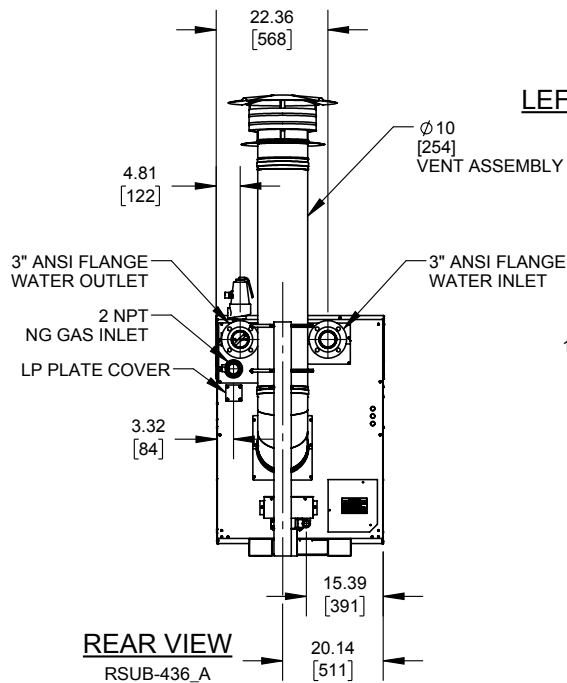
**FRONT VIEW**  
RSUB-436\_A



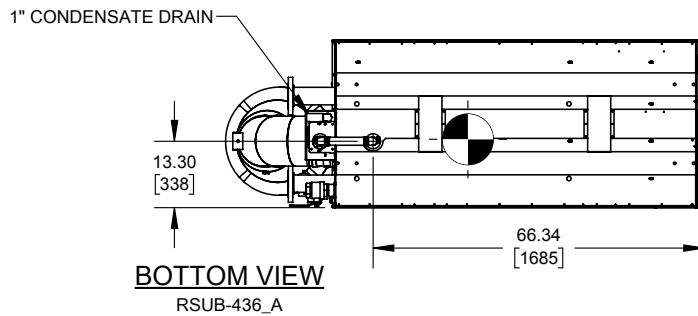
**TOP VIEW**  
RSUB-436\_A



**LEFT SIDE VIEW**  
RSUB-436\_A



**REAR VIEW**  
RSUB-436\_A



**BOTTOM VIEW**  
RSUB-436\_A

### 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

|                                |                       |                                   |                 |
|--------------------------------|-----------------------|-----------------------------------|-----------------|
| <b>Fuel Type</b>               | Natural/Propane Gas   | <b>Boiler FLA</b>                 | 12*             |
| <b>Input BTU/hr.</b>           | 3,000,000/ 879 kW     | <b>Boiler HP</b>                  | 86.2            |
| <b>Output BTU/hr.</b>          | 2,886,000/ 846 kW     | <b>Min. Gas Pressure Required</b> | 4"W.C.          |
| <b>Electrical Requirements</b> | 208-230 VAC/60 Hz/3PH | <b>Max. Gas Pressure Allowed</b>  | 14" W.C.        |
|                                |                       | <b>Operating Weight</b>           | 1565 lbs/710 kg |

## BOILER TRIM & CONTROLS

|                                                                           |           |                            |                               |
|---------------------------------------------------------------------------|-----------|----------------------------|-------------------------------|
| <b>Main Gas Valve</b>                                                     | Dungs MBC | <b>Air Switch</b>          | Huba                          |
| <b>Firing Valve</b>                                                       | 2" Apollo | <b>Flow Switch</b>         | SIKA                          |
| <b>Ignition Control</b>                                                   | Fenwal    | <b>Blocked Flue Switch</b> | Cleveland NS2                 |
| <b>Operating Control</b>                                                  | HeatNet®  | <b>Blower Motor</b>        | Ametek                        |
| <b>High Limit</b>                                                         | Jumo      | <b>L.W.C.O.</b>            | Taco                          |
| <b>Main Ball Valve</b>                                                    | 2" Apollo | <b>Relief Valve (WB)</b>   | 1-1/4" x 1-1/2" set @ 50 psi  |
| <b>Pump contactor strongly recommended for water heater applications.</b> |           | <b>Relief Valve (WW)</b>   | 1-1/2" x 1-1/2" set @ 125 psi |

## A.S.M.E.

|                                            |                             |                     |                        |
|--------------------------------------------|-----------------------------|---------------------|------------------------|
| <b>ASME Sect IV Fire Side Htg Surface</b>  | 188.5 Sq. Ft. /17.5 Sq. M.  | <b>Design Data</b>  | Max. 160 psig & 210°F  |
|                                            |                             | <b>Water Volume</b> | 19.8 gal. /75.0 Liters |
| <b>ASME Sect IV Water Side Htg Surface</b> | 175.0 Sq. Ft. / 16.3 Sq. M. | <b>pH Level</b>     | 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  |
| 288.7             | 18.2 | 31.0          | 92.6 | 231.0                      | 14.6 | 19.8          | 59.2 | 192.5                    | 12.1 | 13.7          | 41.0 | 165.0                         | 10.4 | 10.1          | 30.1 | 144.4         | 9.1 | 7.7           | 23.1 |
| Flow GPM (Boiler) |      |               |      | Temp. Rise (°F) (Boiler**) |      |               |      | Vent Length (Equiv. Ft.) |      |               |      | Air Inlet Length (Equiv. Ft.) |      |               |      |               |     |               |      |
| Min               |      | Max           |      | Min                        |      | Max           |      | Min                      |      | Max           |      | Min                           |      | Max           |      |               |     |               |      |
| 144.4             |      | 288.7         |      | 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 |
| 8806 | 33285 | 5870 | 22190 | 4403 | 16642 | 3522  | 13314 | 2935  | 11095 | 2516  | 9510 |

### 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   |
| 233.3                | 14.7 | 20.2          | 60.4 | 319.2               | 20.1 | 37.9          | 113.3 |

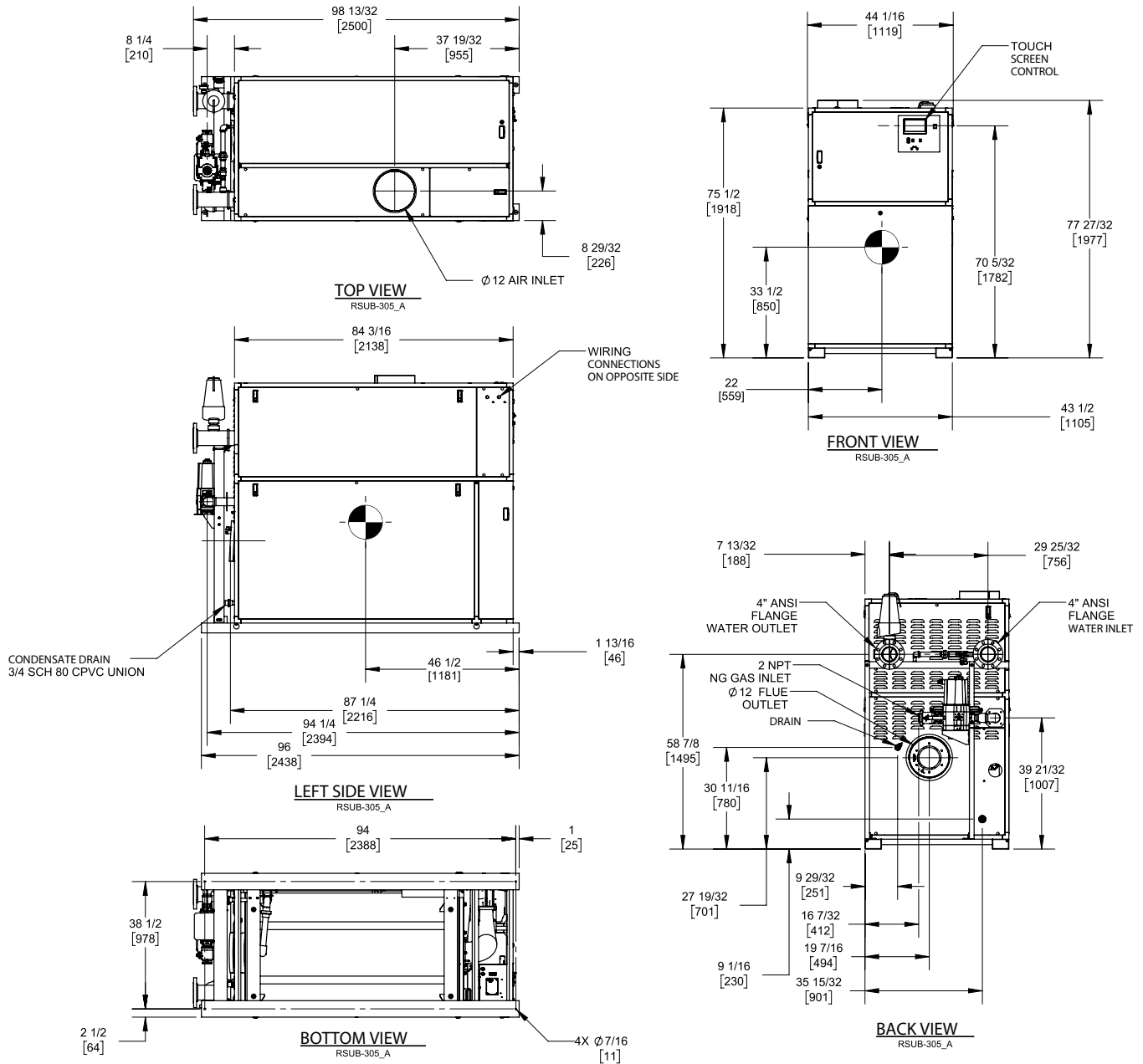
|                     |       |                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>REP FIRM</b>     | _____ | <div><b>TORUS 3001</b></div> <div><b>Category II or Category IV Appliance</b><br/>(see Installation and Operation Manual for venting information)</div> <div>  <b>RELIABLE. BOLD. INNOVATIVE.</b> </div> <div>A Division of Mestek, Inc.<br/>Westfield, MA 01085<br/>(833) 265-5371</div> |
| <b>SUBMITTED BY</b> | _____ |                                                                                                                                                                                                                                                                                                                                                                               |
| <b>JOB NAME</b>     | _____ |                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ARCHITECT</b>    | _____ |                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ENGINEER</b>     | _____ |                                                                                                                                                                                                                                                                                                                                                                               |
| <b>CONTRACTOR</b>   | _____ |                                                                                                                                                                                                                                                                                                                                                                               |
| <b>DATE</b>         | _____ |                                                                                                                                                                                                                                                                                                                                                                               |

# TORUS 4000

## Category II or Category IV Appliance

(see Installation and Operation Manual for venting information)

## INDOOR UNIT



08/2026

### Notes:

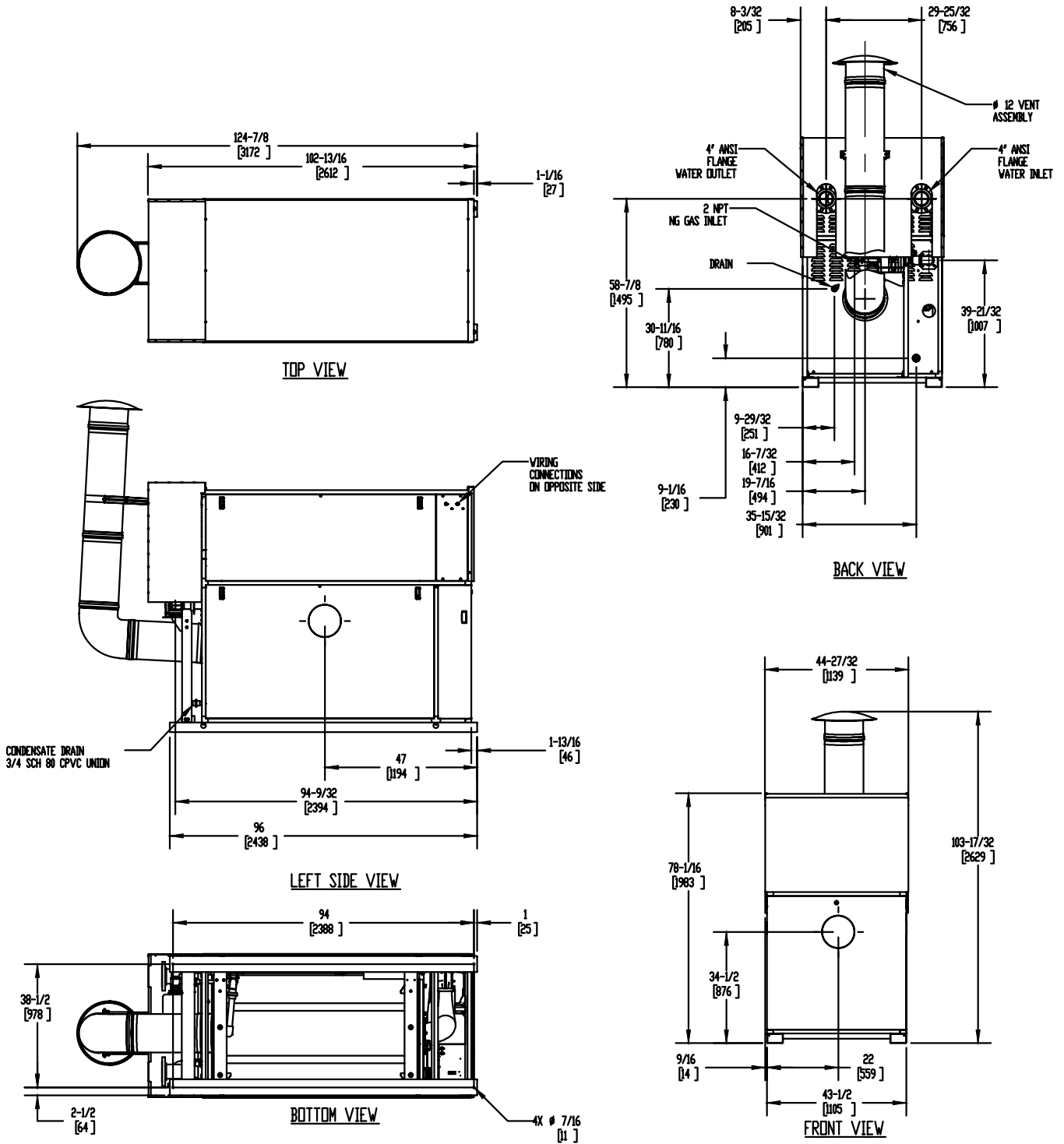
1. Dimensions are approximate and should not be used to "rough-in" equipment.
2. Dimensions are subject to change without notice.
3. All dimensions are in inches (mm).
4. Symbol indicates center of gravity.

08/2026

# TORUS 4000

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

|                                |                     |                                   |                    |
|--------------------------------|---------------------|-----------------------------------|--------------------|
| <b>Fuel Type</b>               | Natural/Propane Gas | <b>Boiler FLA</b>                 | 19.9*              |
| <b>Input BTU/hr.</b>           | 4,000,000 / 1172kW  | <b>Boiler HP</b>                  | 116.52             |
| <b>Output BTU/hr.</b>          | 3,900,000/ 1143 kW  | <b>Min. Gas Pressure Required</b> | 4"W.C.             |
| <b>Electrical Requirements</b> | 230 VAC/60 Hz/3PH   | <b>Max. Gas Pressure Allowed</b>  | 14" W.C.           |
|                                |                     | <b>Operating Weight</b>           | 2866 lbs / 1300 kg |

## BOILER TRIM & CONTROLS

|                                                                    |           |                            |                               |
|--------------------------------------------------------------------|-----------|----------------------------|-------------------------------|
| <b>Main Gas Valve</b>                                              | Dungs MBC | <b>Air Switch</b>          | Huba                          |
| <b>Firing Valve</b>                                                | 2" Apollo | <b>Flow Switch</b>         | SIKA                          |
| <b>Ignition Control</b>                                            | Fenwal    | <b>Blocked Flue Switch</b> | Cleveland NS2                 |
| <b>Operating Control</b>                                           | HeatNet®  | <b>Blower Motor</b>        | Ametek                        |
| <b>High Limit</b>                                                  | Jumo      | <b>L.W.C.O.</b>            | 800                           |
| <b>Main Ball Valve</b>                                             | 2" Apollo | <b>Relief Valve (WB)</b>   | 1" x 1 1/2" set @ 50 psi      |
| Pump contactor strongly recommended for water heater applications. |           | <b>Relief Valve (WW)</b>   | 1 1/2" x 1 1/2" set @ 125 psi |

## A.S.M.E.

|                                |                               |                     |                          |
|--------------------------------|-------------------------------|---------------------|--------------------------|
| <b>ASME Sect IV Fire Side</b>  | 402.93 Sq. Ft. / 37.43 Sq. M. | <b>Design Data</b>  | Max. 160 psig & 210°F    |
| <b>Htg Surface</b>             |                               | <b>Water Volume</b> | 41.3 gal. / 156.3 Liters |
| <b>ASME Sect IV Water Side</b> | 371.25 Sq. Ft. / 34.49 Sq. M. | <b>pH Level</b>     | 6.5-8.5                  |
| <b>Htg Surface</b>             |                               |                     |                          |

\* 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 | 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 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  |
| 294.7                | 18.6 | 14.8          | 44.2 | 392.9               | 24.8 | 26.4          | 78.9 |

**REP FIRM** \_\_\_\_\_  
**SUBMITTED BY** \_\_\_\_\_  
**JOB NAME** \_\_\_\_\_  
**ARCHITECT** \_\_\_\_\_  
**ENGINEER** \_\_\_\_\_  
**CONTRACTOR** \_\_\_\_\_  
**DATE** \_\_\_\_\_

## TORUS 4000

**Category II or Category IV Appliance**  
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