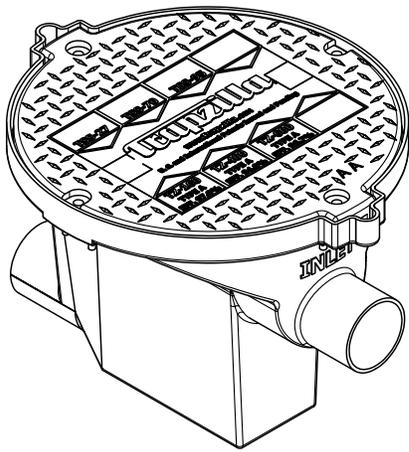




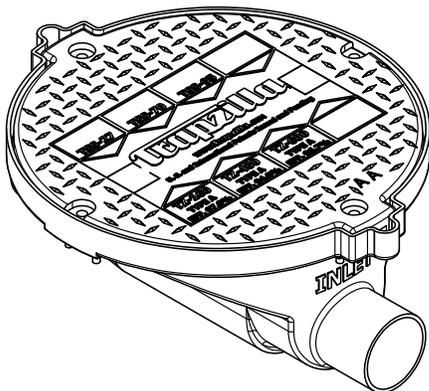
# Installation and Operational Instructions For Trapzilla® Sample Ports



## TZSP-48

Sample Port designed to be installed in locations requiring vertical waterfall filling access.

- 7.8" (198 mm) vertical fall
- 4" (102 mm) Inlet/Outlet



## TZSP-40

Sample Port designed for retrofit installations on existing lines with no vertical fall.

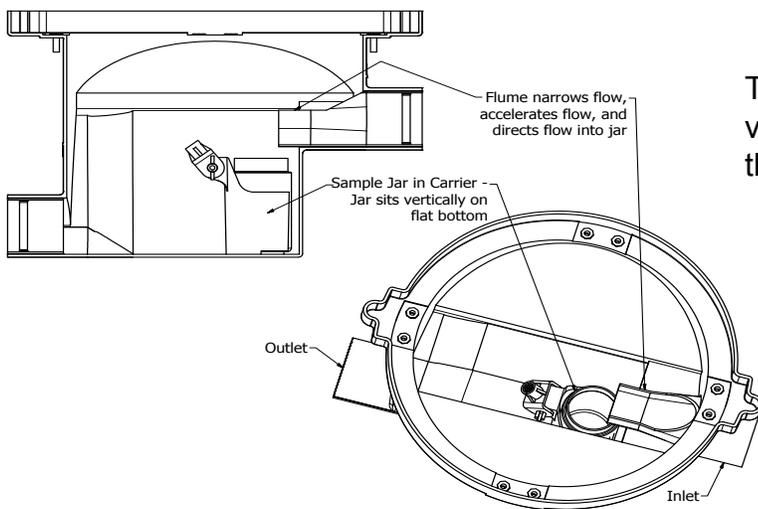
- 0.5" (12.7 mm) fall
- 4" (102 mm) Inlet/Outlet

## Trapzilla® Sample Port System Overview

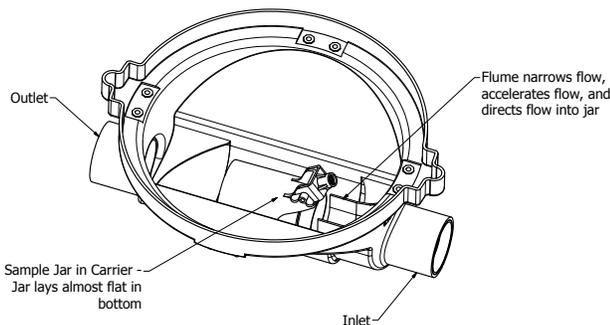
The Trapzilla® Sample Port provides a convenient, easy method to sample a grease interceptor, process point or other effluent source. Trapzilla's unique design makes it easy to install in almost any location, be it inside or outside the facility. It also lends itself to many wastewater sites including commercial, industrial, medical and municipal.

Many municipal authorities are beginning to require facilities install a sampling port to sample effluent wastewater. This includes a sample well or a separate chamber downstream of the facility. In many cases, installation of a conventional sample well is a significant expense. The Trapzilla offers an affordable and accurate alternative to the large sample wells. Two different models offer flexibility regardless of installation with existing sewer lines or in new installations.

To take a sample, simply remove the Trapzilla cover. If using a GrabSampler™ place the sample jar into the jar carrier, attach to a extension pole and lower into the well.



To sample the TZSP-48, leave the jar sitting vertically so it may catch the vertical flow of the water as it flows out of the flume.



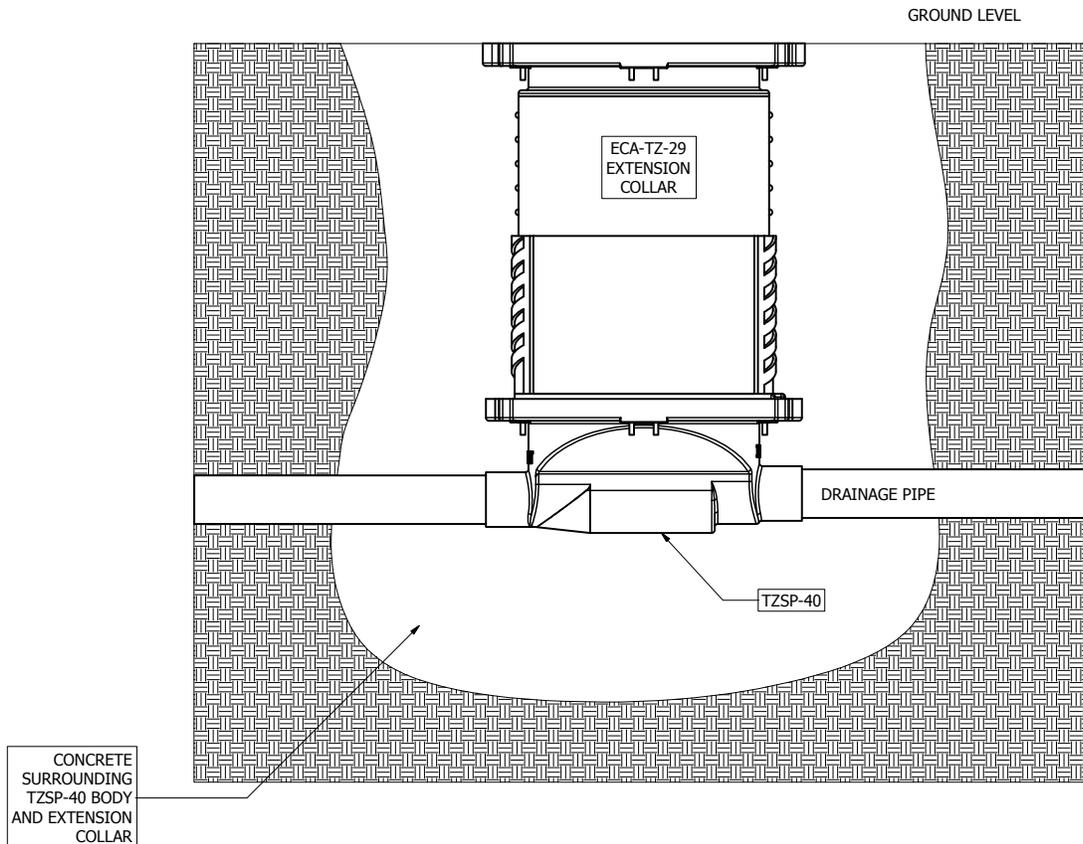
The TZSP-40 has no vertical fall, so the jar must be turned horizontally to catch the flow. The patent pending flume accelerates flows, allowing horizontal sample filling despite the lack of a substantial fall.



# Trapzilla® Sample Ports

## TZSP-40 Plumbing Installation

The Trapzilla Sample Port is designed with ease of installation in mind. It may be installed inside or outside the facility on the wastewater drainage piping. An optional ECA-TZ-29, field-modifiable extension collar is available to assist with plumbing to drainage piping that is deep in the ground. The ECA-TZ-29 Extension Collar has a telescoping two-piece design for easy setting and trimming in the field. Thermaco, Inc., also recommends embedding the in-ground Trapzilla Sample Port with concrete to provide additional structural strength.



In order to offset the effects of buoyancy caused by groundwater (high water tables), Thermaco, Inc. recommends concrete be poured around the anchor ring and the Trapzilla® installed in-ground. The amount of concrete to be used is specified in the table below. The concrete is to be poured continuously and completely surrounding the Trapzilla® body (and Extension Collars if applicable) to ensure proper strength and security.

ITEM	CONCRETE NECESSARY (POUNDS)
TZSP-40	125 Pounds
ECA-TZ-29*	600 Pounds

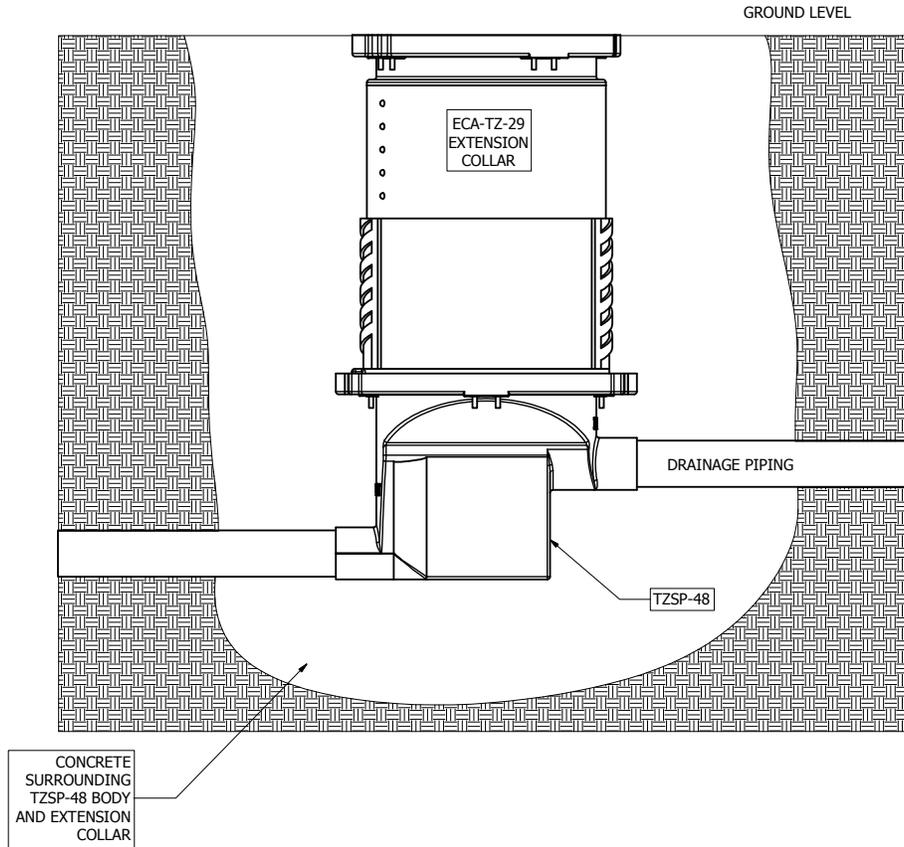
\* AMOUNT OF CONCRETE TO BE ADDED FOR EACH EXTENSION COLLAR OR PART THEREOF



## Trapzilla® Sample Ports

### TZSP-48 Plumbing Installation

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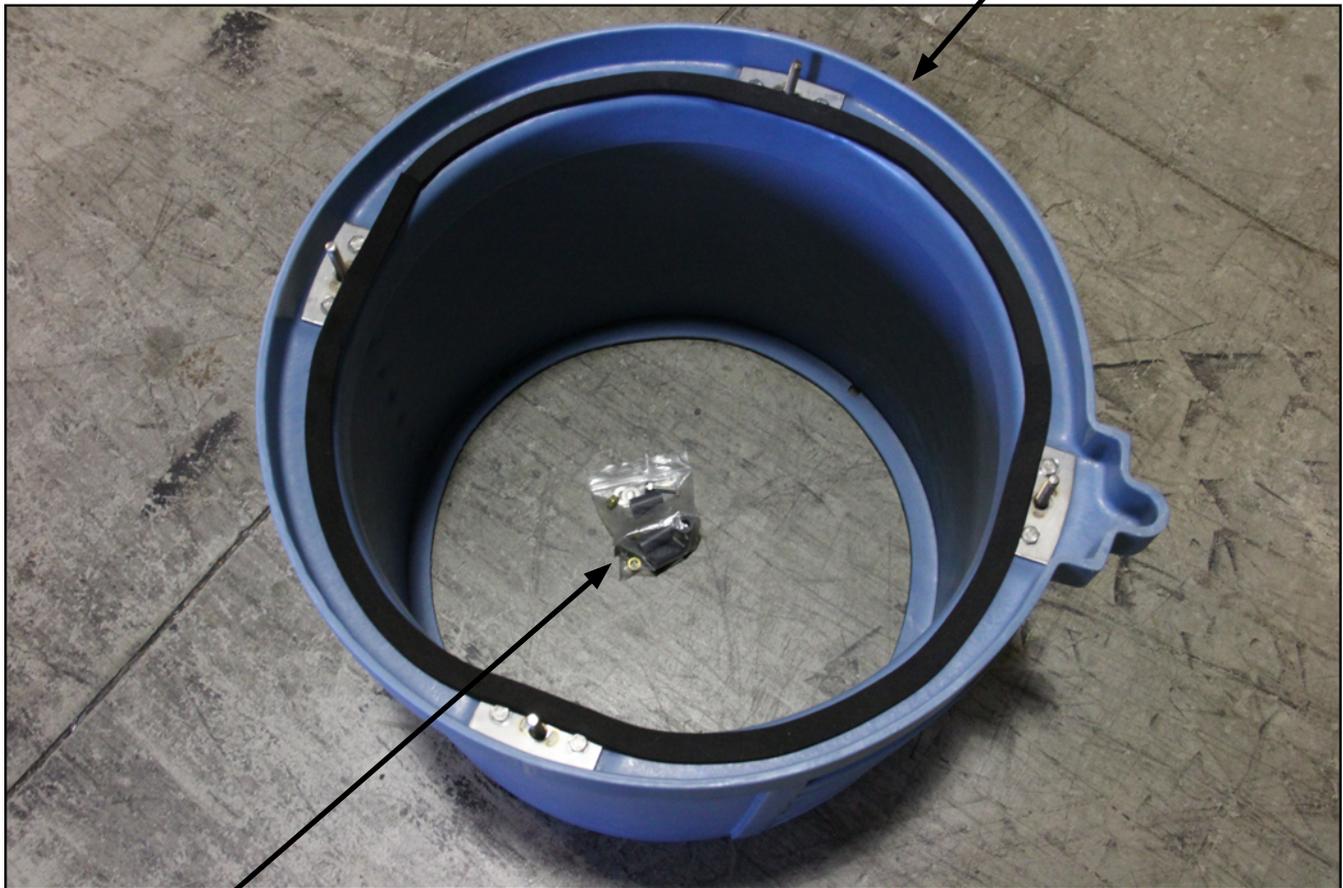
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### Parts Provided with the ECA-TZ-29 Extension Collar

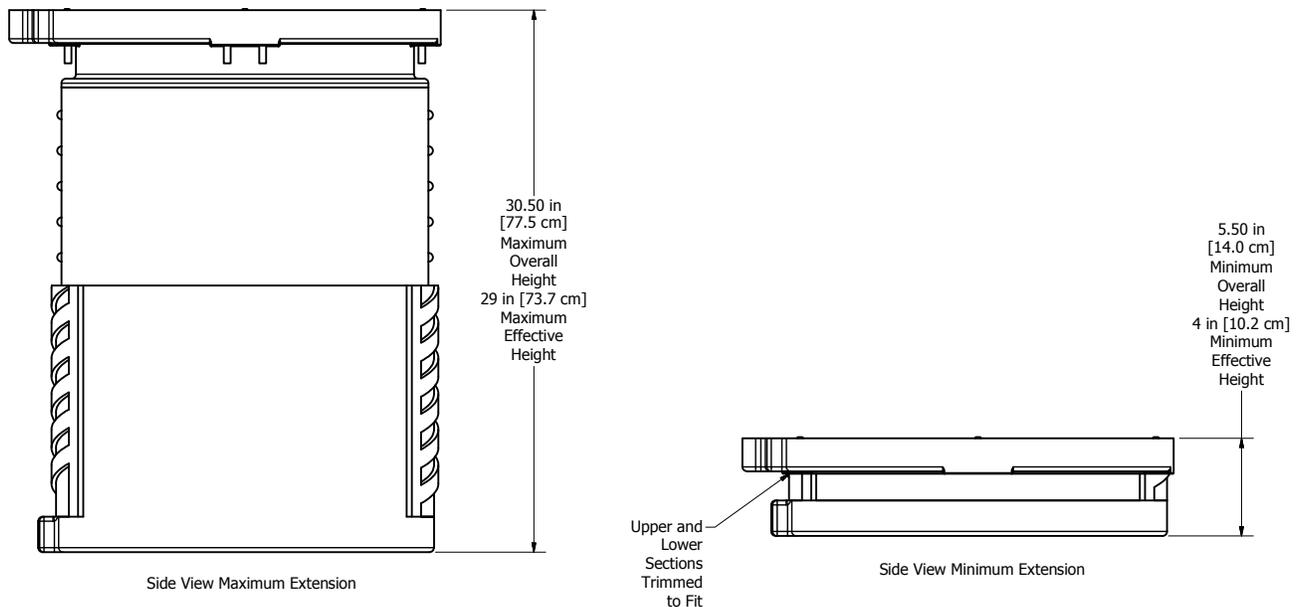
In situations where the pipe levels are set at such a depth so that the lid of the Sample Port does not sit at grade level, an extension collar may be necessary. Thermaco sells the ECA-TZ-29 two-piece extension collar with telescoping design which provides up to 29" effective height increase of the unit, permitting the lid to be brought to grade. Use the lid shipped with the sample port.

Extension Collar



- \* Bolts (4), Stainless Steel Nuts (4) & Washers (8) provided for bolting the two sections of the ECA together.
- Washers (4), Brass Nuts (4), and Spacers (4) provided for bolting the combined ECA to the Trapzilla.

The extension collar height as calculated on page 7 determines the steps required to complete the extension collar installation. The ECA-TZ-29 as shipped is naturally adjustable between 17" and 30.5" in height. The following page (page 8) gives instructions for connecting the two collar halves. The remaining pages cover height adjustments.



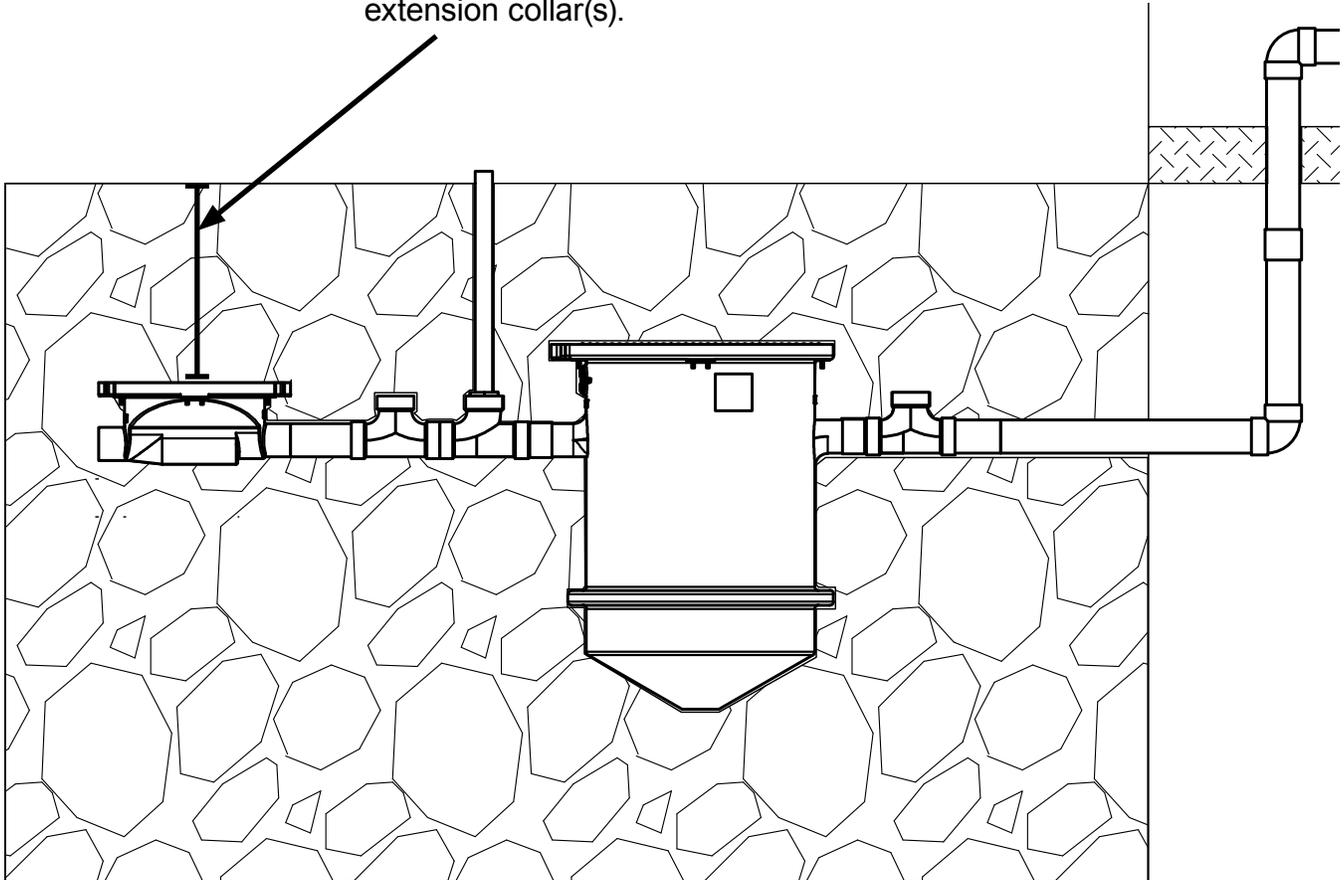
If the calculated height (page 7) is between 17" and 30.5" inches please use page 8 of these instructions for setting the collar height.

If the calculated height is between 5-1/2" and 17" then the collar must be trimmed to match the calculated height. The minimum height for this collar assembly is 5-1/2". If the calculated height is less than 5-1/2", the finished grade level must be adjusted to match either the original Trapzilla Sample Port cover position or the position with the 5-1/2" extension. Please follow the instructions on page 10 for trimming the collar. After trimming follow the instructions on page 8 for assembly.

If the calculated collar height is greater than 30.5 inches then multiple collars must be used. The multiple collars may be a combination of adjusted (page 8) and/or trimmed collars (page 10). Whenever possible use only the adjusted method for the best installation. Because of the "nesting" aspect of these collars, it is necessary to add 1-1/2" to the height of each additional collar (after the first one). (i.e. for 24" of calculated extension height collars of 13-1/2" and 12" could be used.) Follow the instructions on page 5 for assembly of multiple collars.

Use silicone sealant (not provided) to seal all joints to ensure a watertight installation.

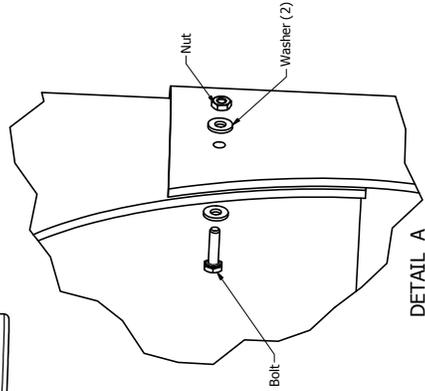
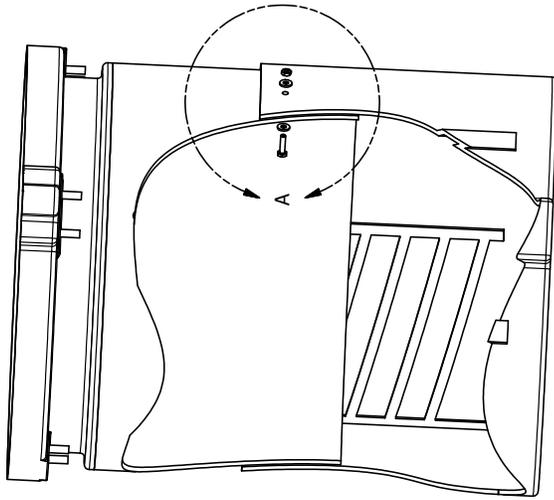
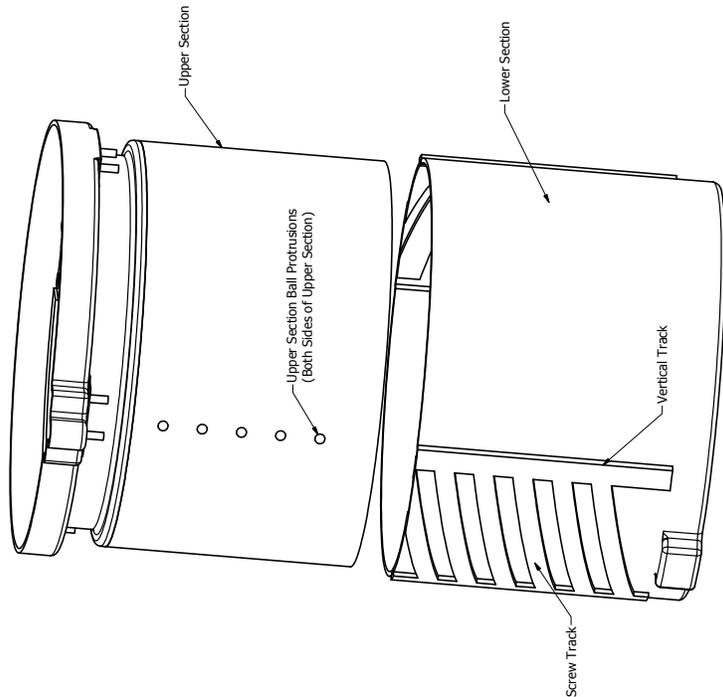
Measure the distance from the desired position for the cover and the top of the Trapzilla Sample Port. Add 1-1/2" to this measurement to account for the lip where the lid normally nests. The new dimension is the calculated height for the extension collar(s).



### Bolting the Upper and Lower Pieces Together

To assemble: Align the ball protrusions on the upper section with the vertical tracks on the lower section. Push the two parts together to the approximate desired height (gross adjustment). Twist the upper section inside of the lower section so that the ball projections engage with the screw thread track. Continue this twisting motion, which will cause the upper section to rise or drop, until the final, desired height is attained.

Note: both upper and lower section may be trimmed to attain minimum extension collar height. Both parts should be trimmed equally. Allow an **MINIMUM** of 1 inch (2.54 cm) overlap between the two sections for bolting (see bolting instruction).



To secure top and bottom sections: Drill through both sections on both sides of the extension collar between the track areas. Bolt top and bottom sections together using the bolts, flat washers, and nuts provided (see diagram). A minimum of four (4) bolts should be used spaced equally in the areas between the tracks. For maximum clearance, the bolt heads should be to the inside with the nuts to the outside as shown.

### Setting the Adjusted Collar Height

- 1) Extend the collar to match the calculated height as determined on page 7.
- 2) Unscrew the brass nuts and remove the 22" Diameter Cover from the Trapzilla Sample Port.
- 3) Using the instructions found on page 8, bolt the two pieces of the Extension Collar together. Use Silicone Sealant (not provided) to seal the space between the two sections of the collar.
- 4) Mount the assembled ECA collar to the Trapzilla unit. Use four (4) brass nuts, washers, and bushings (provided with the ECA) to mount the collar to the sample port. Using the corresponding bolts in the top and the holes in the collar. Use Silicone Sealant (not provided) to seal the space between the collar and the Trapzilla Sample Port. See Figure 2
- 5) Replace the cover to the extension collar and replace the washers and nuts removed in step 2.

Figure 1

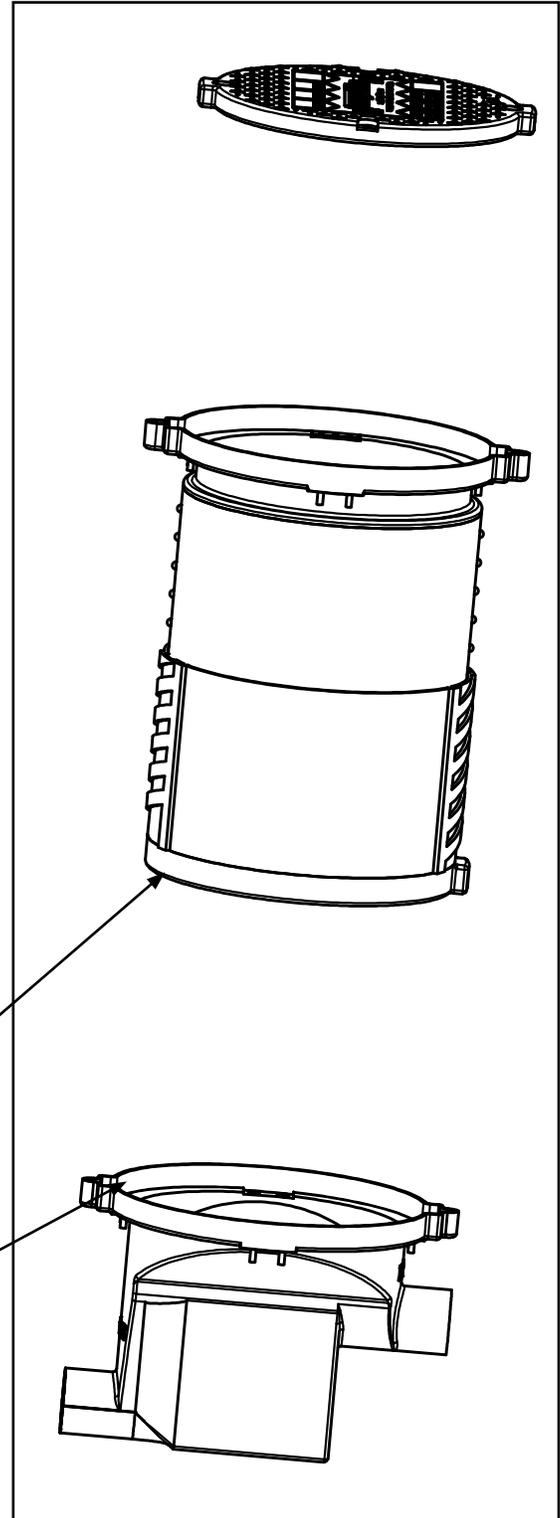
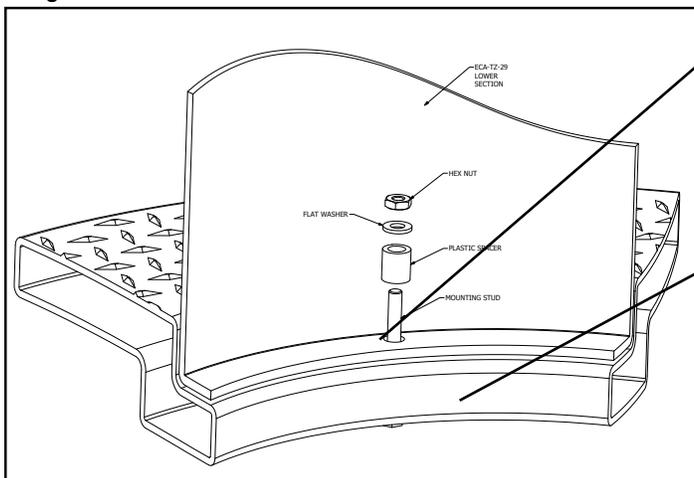
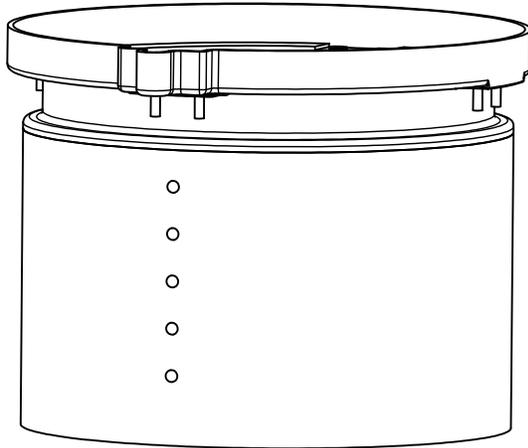


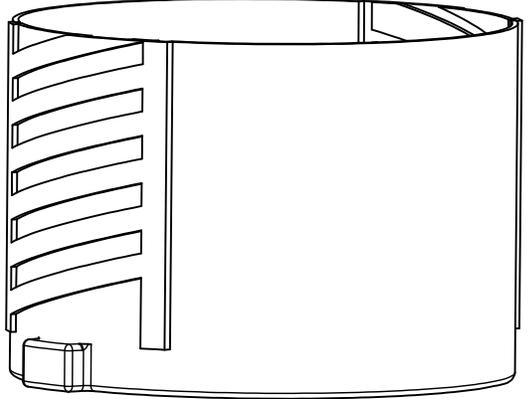
Figure 2



## Trimming the ECA Extension Collar



**Upper (Inner) Section:**  
Measure from the Bottom and cut at the bottom of the section.



**Lower (Outer) Section:**  
Measure from the Top and cut at the top of the section.

### When trimming the ECA Extension Collar, ALWAYS:

- 1) Measure from the Top of the Lower (Outer) section & cut the top of the section.
- 2) Measure from the Bottom of the Upper (Inner) section and cut at the bottom of the section.
- 3) The amount to be trimmed from each piece is equal to 17" minus the calculated height. i.e. If the calculated necessary height is 7", 10" should be trimmed from each half. ( $17"-7"=10"$ ).
- 4) If necessary, cut out notches on the upper section where the bolts will align to ensure that the inner piece will fully rest on the lip of the lower section.



## Trapzilla® Sample Ports

### Limited Warranty & Remedy

Thermaco, Inc. warrants to the original user that the products manufactured by it delivered with this warranty shall be free from material defects in workmanship and materials for a period of 12 months from the date of invoice to the distributor (if sold by an authorized Thermaco distributor) or the date of invoice to the purchaser (if sold directly by Thermaco, Inc.), but in no event longer than 15 months from date of shipment from Thermaco's production facility.

Any claim must be made in writing to Thermaco at 646 Greensboro Street, Asheboro, NC 27203 promptly after discovery of the defect and within the applicable warranty period. The product must be delivered, prepaid, to Thermaco, together with proof of purchase and a return authorization number issued by Thermaco. If Thermaco determines upon examination that the component is defective and that the warranty conditions are met, Thermaco's sole obligation under this warranty, and the purchaser's sole and exclusive remedy, is the repair or replacement, at Thermaco's option, of the defective component, including parts and labor. The replacement will be furnished F.O.B. point of shipment. If Thermaco determines that the component is not defective or that the other conditions of this warranty are not met, then any return of such part to the purchaser shall be at purchaser's cost.

This warranty shall not cover any defect in otherwise covered products resulting directly or indirectly from: (i) failure to properly install, operate or maintain the product in accordance with Thermaco's instructions and procedures, including, without limitation, or use that fails to comply with applicable laws, regulations or codes; (ii) damage in transit, handling or installation; (iii) modifications, adjustments, repairs, or alterations made by unauthorized persons; or (iv) other causes not arising out of defects in workmanship or materials. Thermaco shall not be responsible for damage to products resulting from, sewer line back-up, pumping or lift station failure, ambient water flow or other sources of water damage. This warranty does not cover equipment or parts not manufactured by Thermaco. Purchaser's costs relating to any service, adjustment, removal, repair, packing, or otherwise incurred with respect to the defect prior to submission for warranty are the responsibility of purchaser.

No distributor, sales person or other person is authorized to make any warranty statements on behalf of Thermaco regarding Thermaco products other than as set forth in this warranty. This statement of warranty supersedes any quote, brochure, or other statement or document with respect to warranty of Thermaco products.

EXCEPT AS EXPRESSLY SET FORTH ABOVE, THERMACO, INC. MAKES NO REPRESENTATIONS, WARRANTIES OR GUARANTEES, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, AS TO **MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE**, WHETHER OR NOT THERMACO HAD KNOWLEDGE OF PURCHASER'S PARTICULAR REQUIREMENTS OR NEEDS, OR WITH RESPECT TO ODOR GENERATION OR OTHER INCIDENTALS RELATING TO USE OF THE PRODUCT.

The sole and exclusive remedy with respect to this warranty any other claim relating to defects or any other condition or use of Thermaco products, however caused, and whether such claim is based upon warranty, contract, tort, strict liability or any other theory, is LIMITED to the repair or replacement of the product, excluding labor or any other cost to remove or install said the product or, at Thermaco's option, repayment of the purchase price. IN NO EVENT SHALL THERMACO, INC. BE LIABLE, WHETHER IN CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY, INDEMNITY OR ANY OTHER LEGAL THEORY, FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR FOR ANY OTHER LOSS OR COST OF A SIMILAR TYPE. UNDER NO CIRCUMSTANCES WILL THE AGGREGATE LIABILITY OF THERMACO FOR ANY CAUSE OF ACTION RELATED TO THE PRODUCTS COVERED HEREBY EXCEED THE NET PURCHASE PRICE RECEIVED BY THERMACO FOR THE PRODUCTS. Any action or suit by purchaser against Thermaco relating to Thermaco products must be brought within one (1) year of the date of the invoices referenced above. The exclusions and limitations set forth herein are separate and independent from any remedies which purchaser may have hereunder and shall be given full force and effect whether or not any or all such remedies shall be deemed to have failed of their essential purpose.