

What's included?

- 1. Trapzilla99 Grease Interceptor Spec Sheet
- 2. Trapzilla99 Grease Interceptor Test Report
- 3. Trapzilla Solids Separator Spec Sheet
- 4. Trapzilla Sample Port Spec Sheets
- 5. Flow Control Spec Sheets
- 6. Trapzilla In Series Installation
- 7. Trapzilla Traffic Rated Drawings
- 8. FOG 2.0 RER-DERM Summary
- 9. Trapzilla99 Grease Interceptor Manual *Questions? Need more information? Contact Seth Markwood seth@thermaco.com 800-633-4204 x228*



Trapzilla® Grease Interceptor

TZ-525-ECA Specifications

PRODUCT FEATURES

Constructed of corrosion resistant materials suitable for installation in virtually any location.

Compact footprint.

Baffle structure retains separated grease increasing retention efficiency of separator.

Included lid rated for foot-traffic only

Includes one ECALA-TZ-18 Extension Collar Adapter Lid Assembly for in-ground installation.

SPECIFICATIONS

Construction:	_ Single-Piece Rotationally Molded Polyethylene Exterior Tank with Inlet/ Outlet Inverts secured using Patented Interior Radial Compression Ring
Flow Rating:	_ 50 GPM (3.15 l/s)
Liquid Capacity:	_ 95 gallons (359 l)
Grease Capacity:	_ 71.9 gal. (272.2 l)
	525 lbs. (238.1 Kg)
Removal Efficiency:	99%
Solids Capacity:	_ 22.6 gallons (85.6 l)
Inlet/Outlet:	_ 4" (101 mm)
Product Weight:	_94 lbs. (43 Kg)

® 36.0 in

[91.4 cm]

OUTLET

4 in PIPE INLET AND OUTLET

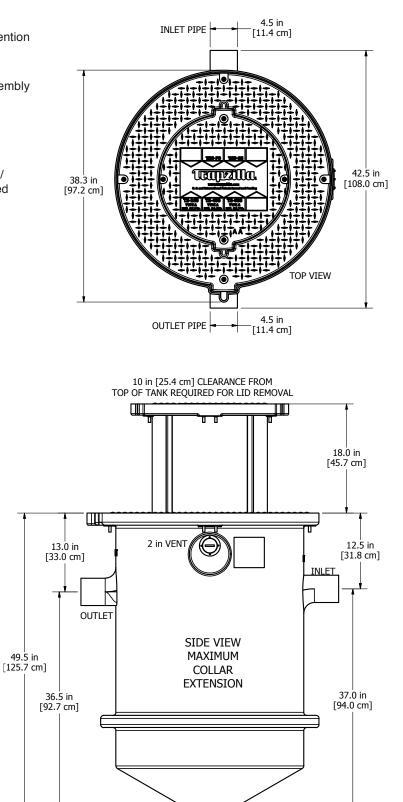
END VIEW

COLLAR

FLUSH

(TRIMMED)

31.0 in [78.7 cm]



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14.1 in [35.9 cm]



TZ-525-ECA Specifications

NOTES

- 1. READ instruction manual included with system before installing/operating.
- 2. Unit requires 6" (15.24 cm) of clearance all the way around the lid from walls or other structures to allow for servicing.
- 3. Make piping connections with rubber "No Hub" connectors.
- 4. Keep outlet piping as straight as possible. Use only "sweep" connections.
- 5. Install vent on outlet piping.
- 6. If installing in conjunction with other Trapzilla products, include cleanout port before, after, and/or between each unit.
- 7. Do not install "P" Trap on outlet connection of tank (unit already has internal gas trap).
- 8. Do not reduce pipe size on outlet piping
- 9. Do not pressure test unit.

Equipment must be installed in compliance with all applicable laws, regulations and codes, including plumbing codes. Installation should be performed by a qualified plumbing contractor.

JOB SPECIFICATION

Grease separator(s) shall be Thermaco **Trapzilla99** hydromechanical grease interceptor system(s) as manufactured by Thermaco, Inc., Asheboro, North Carolina as noted on plans.

SEPARATOR SPECIFICATIONS

Furnish and install ______ Thermaco Trapzilla Model No. TZ-525-ECA, rotationally molded polyethylene grease interceptor(s) for above or below ground installation, shall be rated at 50 GPM (3.15 l/s) with 71.9 gal. (272.2 l) / 525 lbs. (238.1 Kg) of total grease storage capacity with 99% separation efficiency capable of holding 75% of volume in free-floating fats, oils, and grease at 99% separation effeciency capacity, with removable cover for grease and solids removal access, integral anti-flotation anchor ring for in-ground installation, integral horizontal baffle, laminar inlet flow diverter, integral vessel vent, separate storage compartments for grease and heavier than water solids, a unitary tank body and 4" (101 mm) inlet/outlet structures without gasket interfaces, utilizing an interior radial compression ring conjoining invert to tank outlet/inlet structures without bulkhead fittings and/or gaskets, invert top and bottom secured attachment points, sloping conical bottom for solids retention, integral sewer gas trap, and a fully removable polyethylene self-positioning cover with sealed thread fasteners.

SUBMITTAL OPTIONS

6/19

- □ ECA-TZ-29 Extension Collar with additional 29" (73.7 cm) of extension
- □ TZSP-40-ECA Sampling Port with 4" Inlet/Outlet, 0.5" fall with 29" (73.7 cm) Extension Collar Assembly
- TZSP-48-ECA Sampling Port with 4" Inlet/Outlet, 7.8" fall with 29" (73.7 cm) Extension Collar Assembly
- □ TSS-95 Solids Interceptor for additional Solids Capacity
- □ VFCA-75 Vented Flow Control Assembly for installation at plumbing fixture level to limit flow to 75 gpm for installations with head height greater than 6'
- □ MFSH-44 Molded Flow Splitter Assembly for evenly diverting flow to two separate 4" Trapzilla units
- □ MFSH-66 Molded Flow Splitter Assembly for evenly diverting flow to two separate 6" Trapzilla units
- FTCA-22 Fabricated Top Cover Assembly with 22" (55.9 cm) diameter diamond plate aluminum surface for heavy duty foot-traffic, pallet jacks, food carts etc. Replaces standard 22" STC-TZ-22 Cover (not rated for vehicle traffic)
 Only use in conjunction with ECA-TZ-29
- □ FTCA-36 Fabricated Top Cover Assembly with 36" (91.4 cm) diameter diamond plate aluminum surface for heavy duty foot-traffic, pallet jacks, food carts etc. Replaces Adapter Ring and Standard Cover (not rated for vehicle traffic)
- □ H20/Traffic Rated Installation, see link for installation drawings



NSF International Report for Job #: J-00329449 Page 1 of 13

NSF International 789 North Dixboro Road P.O. Box 130140 Ann Arbor, MI 48113-0140 Phone: 734-769-8010 Fax: 734-769-0109

Test Date:	February 28, 2019
Sample Received:	February 28, 2019 – Submitted in good condition by manufacturer
Issuance Date:	April 17, 2019
Revision Date:	NA

Client Name:	Thermaco, Inc.
	646 Greensboro Street,
	Asheboro, NC 27203
	United States
Product Manufactu	rer (if different from client):

Same

Source of Test Sample (Plant Name):	Same
Address:	Same

IAPMO File Number:	TBD
--------------------	-----

Client

Product Description: Trapzilla Grease Interceptor | TZ-525

Sample submitted by:



IAPMO R & T Inspector (See Annex B for "Instruction for Testing" form)

* Sample did not appear to have been tampered with before arriving at NSF International. The IAPMO tamper-resistant stickers were intact.

All portions of each test performed were under continuous and direct supervision of NSF International.

Concluding Summary:

PASS Model TZ-525 | 50 GPM Trapzilla Grease interceptor meets the requirements of ASME A112.14.3 Grease Interceptors

Testing Conducted By:

Lab Staff:______ David Orton – Senior Engineer, Engineering Laboratory Authority:

Paul Anderson – Director, Engineering Laboratory

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		100000000000000000000000000000000000000	facturer:	Thermaco			Model Nun	nber:	TZ	Z-525	GPM Size:	50	Report No.:	J-00329449
Si	nk Cap	oacity	and Flow	**	**Lard Dat	a****	****Flow	Control D	ata****	***Test	Lab Informa	tion***		
Capa	city No	o. 1	50 gal	Spec. Gra	vity	0.879	Orifice Size	e:	1.666"	Test Lab: 1	hermaco		Test Date:	28-Feb-1
Capa	city No	0.2	50 gal	Viscosity		78.1						1	Notes:	
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Sepa	rate No	0.2	36.9 GPM	0							Javier	Gonzalez	compartment	
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Simu	Itaneo	us	50.7 GPM	Ĩ.							Jon	McGaugh	2. The "amount ret	ained" is a
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Trapzilla® Solids Separator

TSS-95-ECA Specifications

PRODUCT FEATURES

Constructed of corrosion resistant materials suitable for installation in virtually any location.

Compact footprint.

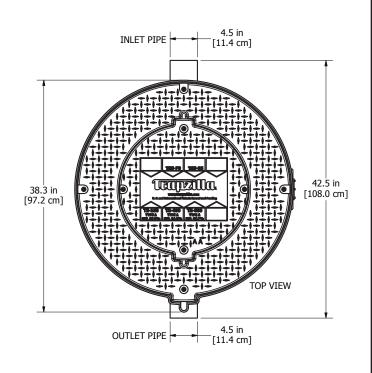
Baffle structure retains separated solids permitting flow of grease, oil, and water.

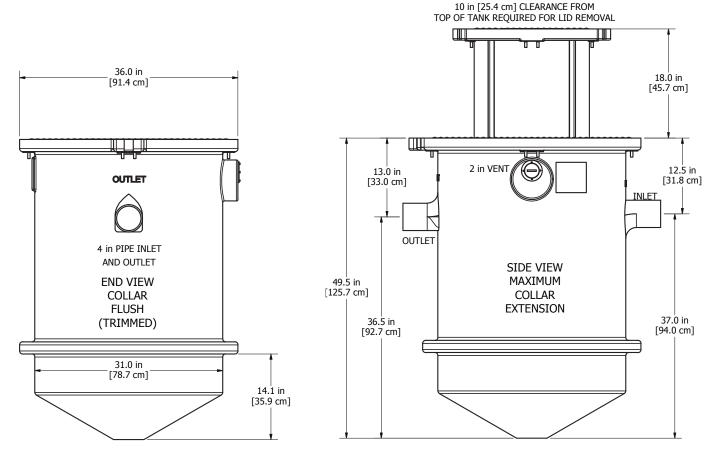
Included lid rated for foot-traffic only.

Includes one ECALA-TSS-18 Extension Collar Adapter Lid Assembly for in-ground installation.

SPECIFICATIONS

Construction:	Single-Piece Rotationally Molded Polyethylene Exterior Tank with Inlet/ Outlet Inverts secured using Patented Interior Radial Compression Ring
Flow Rating:	_ 150 GPM (9.46 l/s)
Liquid Capacity:	_ 95 gallons (359 l)
Solids Capacity:	_ 95 gallons (359 l)
Inlet/Outlet:	_ 4" (101 mm)





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TSS-95-ECA Specifications

NOTES

- 1. READ instruction manual included with system before installing/operating.
- 2. Unit requires 6" (15.24 cm) of clearance all the way around the lid from walls or other structures to allow for servicing.
- 3. Make piping connections with rubber "No Hub" connectors.
- 4. Keep outlet piping as straight as possible. Use only "sweep" connections.
- 5. Install vent on outlet piping.
- 6. If installing in conjunction with other Trapzilla products, include cleanout port before, after, and/or between each unit.
- 7. Do not install "P" Trap on outlet connection of tank (unit already has internal gas trap).
- 8. Do not reduce pipe size on outlet piping
- 9. Do not pressure test unit.

Equipment must be installed in compliance with all applicable laws, regulations and codes, including plumbing codes. Installation should be performed by a qualified plumbing contractor.

JOB SPECIFICATION

Solids separator(s) shall be Thermaco Trapzilla solids interceptor system(s) as manufactured by Thermaco, Inc., Asheboro, North Carolina as noted on plans.

SEPARATOR SPECIFICATIONS

Furnish and install ______ Thermaco Trapzilla Model No. TSS-95-ECA, rotationally molded polyethylene solids separator(s) for below ground installation, shall be rated at 150 gpm (9.46 l/s) with 95 gallons (359 l) of total solids storage capacity, with removable cover for solids removal access, integral anti-flotation anchor ring for in-ground installation, laminar inlet flow diverter, integral vessel vent, a unitary tank body and 4" (101 mm) inlet/outlet structures without gasket interfaces, utilizing an interior radial compression ring conjoining invert to tank outlet/inlet structures without bulkhead fittings and/or gaskets, sloping conical bottom, integral sewer gas trap, and a fully removable polyethylene self-positioning cover with sealed thread fasteners. Includes one extension collar assembly, linear low-density rotationally molded polyethylene for field adjustability to optimal installation depth.

SUBMITTAL OPTIONS

7/16

- □ 6" (150mm) Inlet/Outlet Model# TSS-95-ECA-6
- □ ECA-TSS-29 Extension Collar with additional 29" (73.7 cm) of extension
- □ TZSP-40-ECA Sampling Port with 4" Inlet/Outlet, 0.5" fall with 29" (73.7 cm) Extension Collar Assembly
- □ TZSP-48-ECA Sampling Port with 4" Inlet/Outlet, 7.8" fall with 29" (73.7 cm) Extension Collar Assembly
- □ VFCA-75 Vented Flow Control Assembly for installation at plumbing fixture level to limit flow to 75 gpm for installations with head height greater than 6'
- □ MFSH-44 Molded Flow Splitter Assembly for evenly diverting flow to two separate 4" Trapzilla units
- □ MFSH-66 Molded Flow Splitter Assembly for evenly diverting flow to two separate 6" Trapzilla units
- □ FTCA-22 Fabricated Top Cover Assembly with 22" (55.9 cm) diameter diamond plate aluminum surface for heavy duty foot-traffic, pallet jacks, food carts etc. Replaces standard 22" STC-TZ-22 Cover (not rated for vehicle traffic)
- □ H20/Traffic Rated Installation, see link for installation drawings



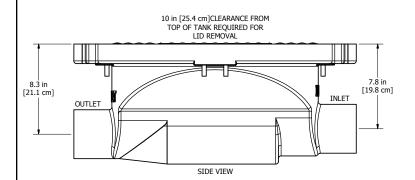
Trapzilla® Sample Ports

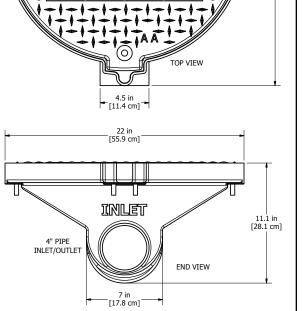
TZSP-40 Specifications

4.5 in [11.4 cm]

FEATURES:

- Constructed of corrosion resistant materials suitable for installation in virtually any location.
- Compact footprint.
- 0.5" (12.7 mm) fall for horizontal filling access.
- Optional field-modifiable extension collar available to bring lid up to grade.
- Patent-pending flume technology narrows and accelerates incoming flows allowing sampling despite lack of substantial fall gradient.





TECHNICAL DATA

Materials:	Rotationally Molded Polyethylene
Inlet/Outlet Size:	4" (102 mm)
Fall Gradient:	0.5" (12.7 mm)

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26['] in [66.0 cm]





TZSP-40 Specifications

INSTALLATION INFORMATION

Suggested Minimum Footprint Dimensions

Trapzilla Sample Ports require 6" (15.24 cm) of clearance all the way around the lid from walls or other structures to allow for servicing.



READ instruction manual included with system before doing anything.

Install unit allowing for the minimum clearances shown.

Make piping connections with rubber "No Hub" connectors.

Keep outlet piping as straight as possible. Use only "sweep" connections.

If installing in conjuction with other Thermaco products, include cleanout port between each unit.

DO NOT reduce pipe size on outlet piping.

DO NOT install "P" trap on outlet connection.

NOTE: Drawing for reference only. Equipment must be installed in compliance with all applicable laws, regulations and codes, including plumbing codes. Installation should be performed by a qualified plumber.

Job Specification:

Wastewater Sampling Port(s) shall be Thermaco **Trapzilla** Sampling Port as manufactured by Thermaco, Inc., Asheboro, North Carolina as noted on plans.

Sampling Port Specifications:

Furnish and install _____ Thermaco **Trapzilla** Model No. TZSP-40, linear low-density rotationally molded polyethylene wastewater sampling port(s) for below-ground installation with fully removable polyethylene self-positioning keyed cover equipped with brass fasteners for sampling access, 0.5" (12.7 mm) fall, 4" (102 mm) Inlet/Outlet interior diameter, and patent-pending flume technology for preventing sediment build-up and allowing horizontal filling access.



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Trapzilla® Sampling Port

TZSP-48-ECA Specifications

PRODUCT FEATURES

Constructed of corrosion resistant materials suitable for installation in virtually any location.

Compact footprint.

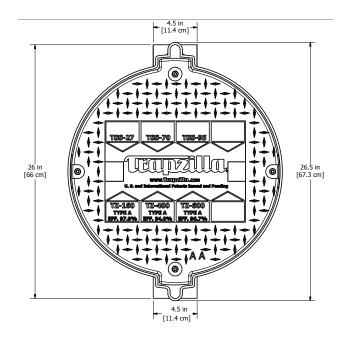
7.8" (198 mm) fall to meet vertical waterfall filling access.

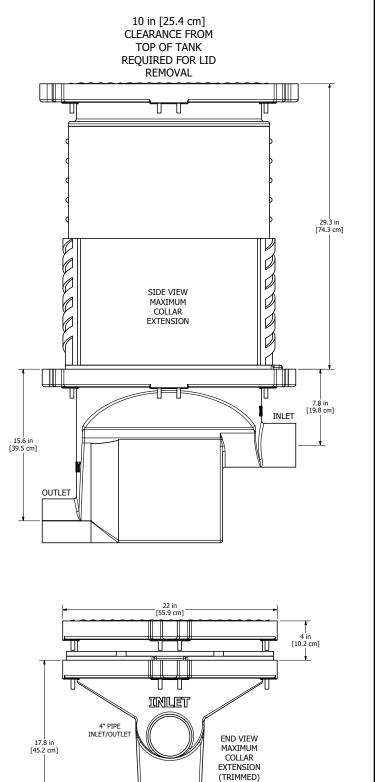
Patent-pending flume technology narrows and accelerates incoming flows allowing sampling despite lack of substantial fall gradient.

Includes one ECA-TZ-29 Extension Collar for in-ground installation.

SPECIFICATIONS

Construction:	Single-Piece Rotationally Molded Polyethylene Exterior Tank with Patented Interior Radial Compression Ring Securing Patent-Pending Roationally Molded Inlet Flume
Fall Gradient:	_ 7.8" (198 mm)
Inlet/Outlet:	_ 4" (102 mm)





6 in [15.3 cm]

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TZSP-48-ECA Specifications

<u>NOTES</u>

- 1. READ instruction manual included with system before installing/operating.
- 2. Unit requires 6" (15.24 cm) of clearance all the way around the lid from walls or other structures to allow for servicing.
- 3. Make piping connections with rubber "No Hub" connectors.
- 4. Keep outlet piping as straight as possible. Use only "sweep" connections.
- 5. Install vent on outlet piping.
- 6. If installing in conjunction with other Trapzilla products, include cleanout port before, after, and/or between each unit.
- 7. Do not install "P" Trap on outlet connection of tank (unit already has internal gas trap).
- 8. Do not reduce pipe size on outlet piping
- 9. Do not pressure test unit.

Equipment must be installed in compliance with all applicable laws, regulations and codes, including plumbing codes. Installation should be performed by a qualified plumbing contractor.

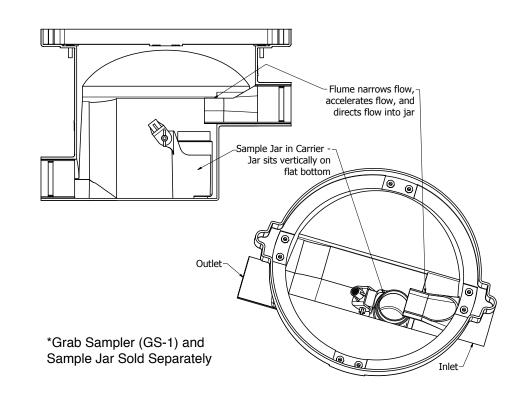
JOB SPECIFICATION

Wastewater Sampling Port(s) shall be Thermaco Trapzilla Sampling Port as manufactured by Thermaco, Inc., Asheboro, North Carolina as noted on plans.

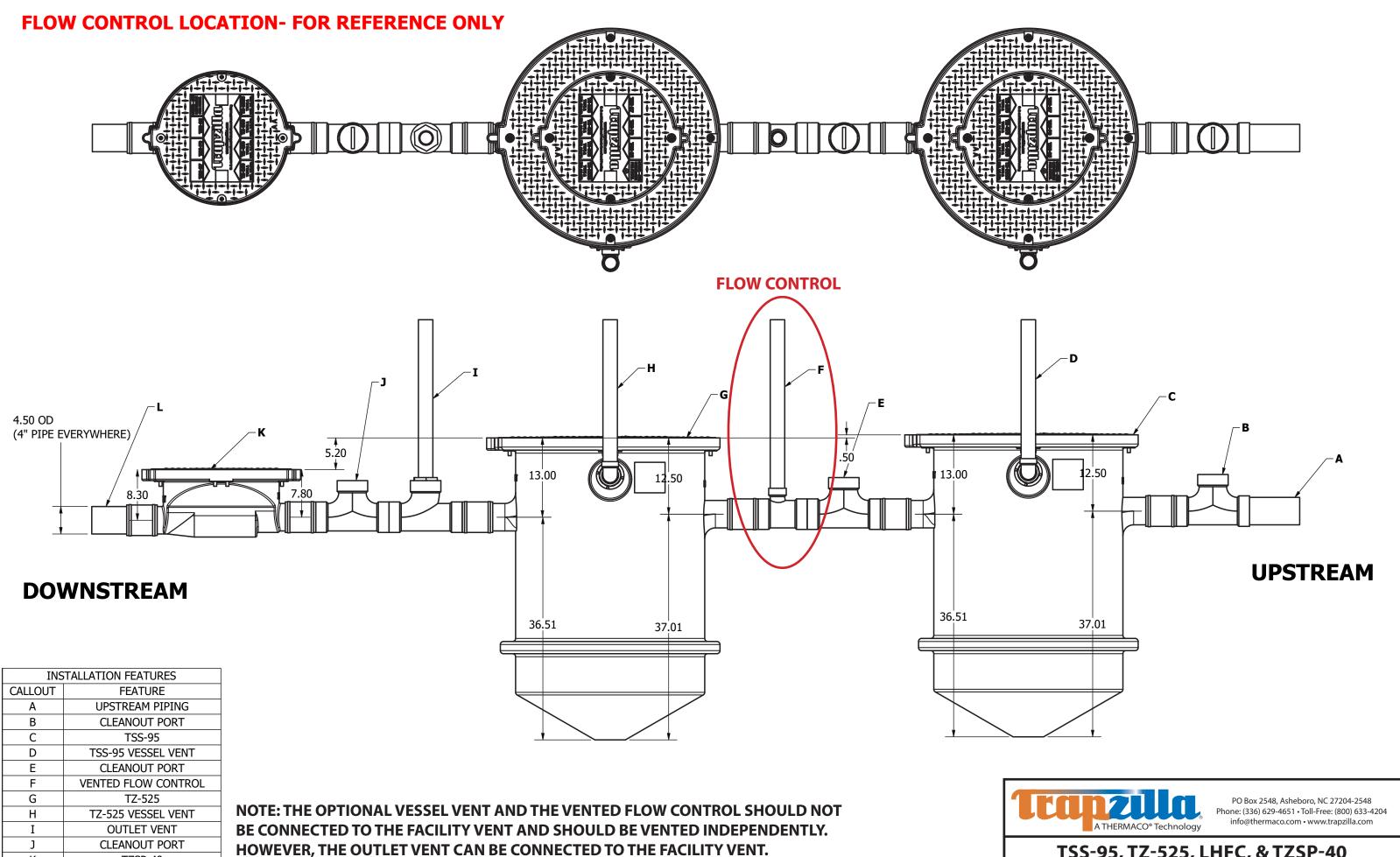
SAMPLING PORT SPECIFICATIONS

Furnish and install _____ Thermaco **Trapzilla** Model No. TZSP-48, linear low-density rotationally molded polyethylene wastewater sampling port(s) for below-ground installation with fully removable polyethylene self-positioning keyed cover equipped with brass fasteners for sampling access, 7.8" (198mm) fall for veritcal waterfall filling access, 4" (102 mm) Inlet/Outlet interior diameter, and patent-pending flume technology for preventing sediment build-up in inlet. Includes one ECA-TZ-29 extension collar assembly, linear low-density rotationally molded polyethylene for field adjustability to optimal installation depth.

SAMPLING PORT INTERNAL COMPONENTS AND OPERATION



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TZSP-40

DOWNSTREAM PIPING

Κ

1

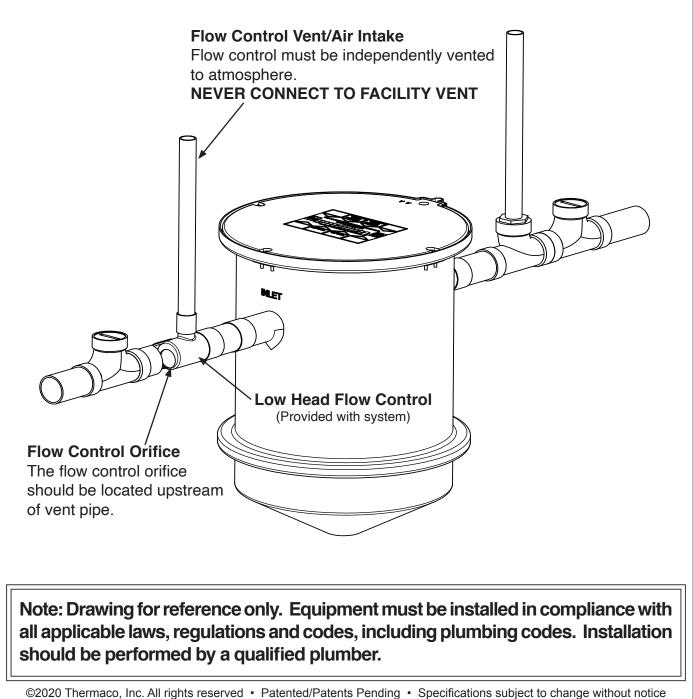
TSS-95, TZ-525, LHFC, & TZSP-40 **INSTALLED IN SERIES**



Low Head Flow Control Assembly Installation Instructions

LHFC Low Head Flow Control Installation

The Trapzilla unit is shipped with the LHFC-160 (for Model TZ-160) or LHFC-400/600 (for Models TZ-400, TZ-600, TZ-525, and TZ-1826) Low Head Height, Vented Flow Control. This needs to be installed directly at the inlet of the Trapzilla. The Flow Control Vent may be independent direct connect to atmosphere or code-approved air admittance valve. **NEVER CONNECT TO FACILITY VENT.**



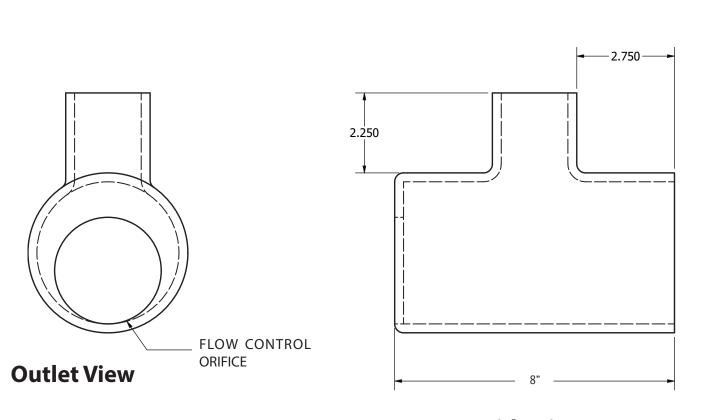
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7/19

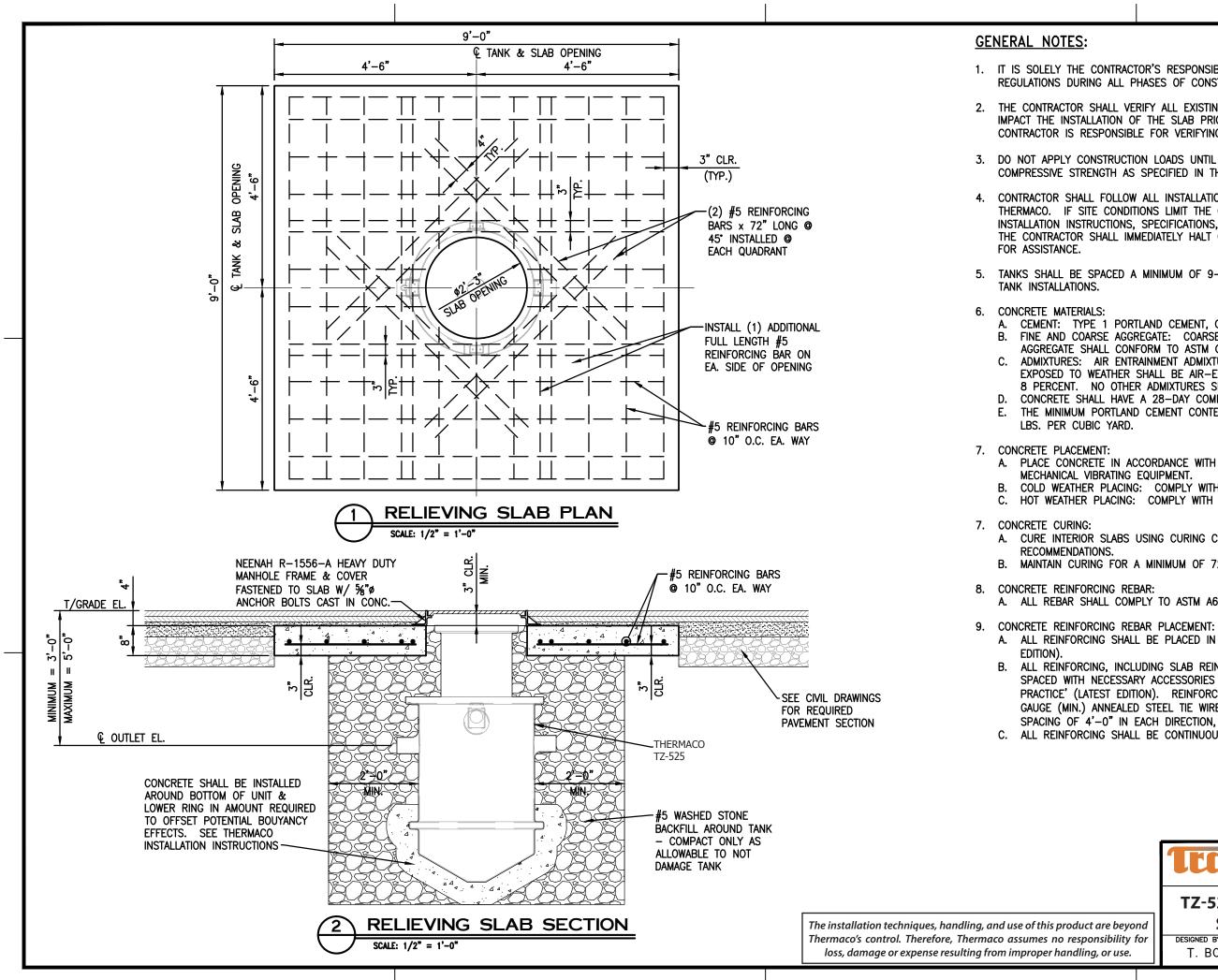
Trapzilla External Flow Control





Side View

The Trapzilla grease interceptors ship with an external flow control to be used when necessary. The flow control above is a 4" inlet/outlet flow control.



1. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.

2. THE CONTRACTOR SHALL VERIFY ALL EXISTING OR PROPOSED SITE FEATURES WHICH COULD IMPACT THE INSTALLATION OF THE SLAB PRIOR TO PROCEEDING WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL TOP OF PAVEMENT/SLAB ELEVATIONS.

DO NOT APPLY CONSTRUCTION LOADS UNTIL CONCRETE HAS REACHED IT'S REQUIRED COMPRESSIVE STRENGTH AS SPECIFIED IN THESE NOTES.

CONTRACTOR SHALL FOLLOW ALL INSTALLATION INSTRUCTIONS AND SPECIFICATIONS SUPPLIED BY THERMACO. IF SITE CONDITIONS LIMIT THE CONTRACTOR'S ABILITY TO FOLLOW THERMACO'S INSTALLATION INSTRUCTIONS, SPECIFICATIONS, OR THE INFORMATION SHOWN ON THIS DRAWING. THE CONTRACTOR SHALL IMMEDIATELY HALT CONSTRUCTION OPERATIONS AND CONTACT THERMACO

TANKS SHALL BE SPACED A MINIMUM OF 9-FT. ON CENTER FOR SITES THAT REQUIRE MULTIPLE

CEMENT: TYPE 1 PORTLAND CEMENT, CONFORMING TO ASTM C150. FINE AND COARSE AGGREGATE: COARSE AGGREGATE SIZE SHALL BE NO. 57 OR LARGER. AGGREGATE SHALL CONFORM TO ASTM C33. ADMIXTURES: AIR ENTRAINMENT ADMIXTURE CONFORMING TO ASTM C260. CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED. AIR CONTENT SHALL BE BETWEEN 4 AND 8 PERCENT. NO OTHER ADMIXTURES SHALL BE USED. CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI. THE MINIMUM PORTLAND CEMENT CONTENT (ASTM C150) OF ALL CONCRETE SHALL BE 517

A. PLACE CONCRETE IN ACCORDANCE WITH ACI 304. CONSOLIDATE PLACED CONCRETE USING COLD WEATHER PLACING: COMPLY WITH ACI 306. HOT WEATHER PLACING: COMPLY WITH ACI 305.

CURE INTERIOR SLABS USING CURING COMPOUND IN ACCORDANCE WITH MANUFACTURER'S

B. MAINTAIN CURING FOR A MINIMUM OF 72 HOURS AFTER PLACEMENT OF CONCRETE.

A. ALL REBAR SHALL COMPLY TO ASTM A615, GRADE 60.

A. ALL REINFORCING SHALL BE PLACED IN ACCORDANCE WITH ACI DETAILING MANUAL (LATEST

B. ALL REINFORCING, INCLUDING SLAB REINFORCEMENT, SHALL BE SUPPORTED IN FORMS AND SPACED WITH NECESSARY ACCESSORIES IN ACCORDANCE WITH CRSI 'MANUAL OF STANDARD PRACTICE' (LATEST EDITION). REINFORCING BARS SHALL BE WIRED TOGETHER USING 16 GAUGE (MIN.) ANNEALED STEEL TIE WIRE AT EVERY THIRD CROSSING, OR A MAXIMUM SPACING OF 4'-0" IN EACH DIRECTION, UNLESS OTHERWISE SHOWN. C. ALL REINFORCING SHALL BE CONTINUOUS. NO LAP SPLICES SHALL BE PERMITTED.



SLAB PLAN & SPECIFICATIONS DESIGNED BY T. BORN

1/2" = 1'-0"

9-JAN-17

Hydromechanical FOG Control Device (H-FCD)

Required Information	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Capacity (gpm)	50			
FOG Load Capacity (lbs) at 99% Efficiency	524.98 lbs			
Manufacturer	Thermaco, Inc.			
Model No.	TZ-525			
3 rd Party Certifier (i.e., PDI, CSA, ASME)	ASME, PDI			
Interceptor Monitoring Alarm Model No.	N/A			
Interceptor Monitoring Device Model No.	N/A			
Solid Separator Make and Model	Thermaco TS	SS-95		

MODEL NUMBERS HAVE TO BE VISSIBLE AT THE TIME OF THE DERM/BUILDING INSPECTION

Updated:6/13/2019

Hydromechanical FOG Control Device (H-FCD)

Required Information	Tank No. 1	Tank No. 2			
Capacity (gpm)	50	50			
FOG Load Capacity (lbs) at 99% Efficiency	524.98 lbs	1,049.96 lbs			
Manufacturer	Thermaco, Inc.	Thermaco, Inc.			
Model No.	TZ-525	TZ-525			
3 rd Party Certifier (i.e., PDI, CSA, ASME)	ASME, PDI	ASME, PDI			
Interceptor Monitoring Alarm Model No.	N/A	N/A			
Interceptor Monitoring Device Model No.	N/A	N/A			
Solid Separator Make and Model	Thermaco TSS-95				

MODEL NUMBERS HAVE TO BE VISSIBLE AT THE TIME OF THE DERM/BUILDING INSPECTION

Updated:6/27/2019

Hydromechanical FOG Control Device (H-FCD)

Required Information	Tank No. 1	Tank No. 2	Tank No. 3		
Capacity (gpm)	50	50	50		
FOG Load Capacity (lbs) at 99% Efficiency	524.98 lbs	1,049.96 lbs	1,574.94 lbs		
Manufacturer	Thermaco, Inc.	Thermaco, Inc.	Thermaco, Inc.		
Model No.	TZ-525	TZ-525	TZ-525		
3 rd Party Certifier (i.e., PDI, CSA, ASME)	ASME, PDI	ASME, PDI	ASME, PDI		
Interceptor Monitoring Alarm Model No.	N/A	N/A	N/A		
Interceptor Monitoring Device Model No.	N/A	N/A	N/A		
Solid Separator Make and Model	Thermaco TSS-95				

MODEL NUMBERS HAVE TO BE VISSIBLE AT THE TIME OF THE DERM/BUILDING INSPECTION

Updated:6/27/2019

Hydromechanical FOG Control Device (H-FCD)

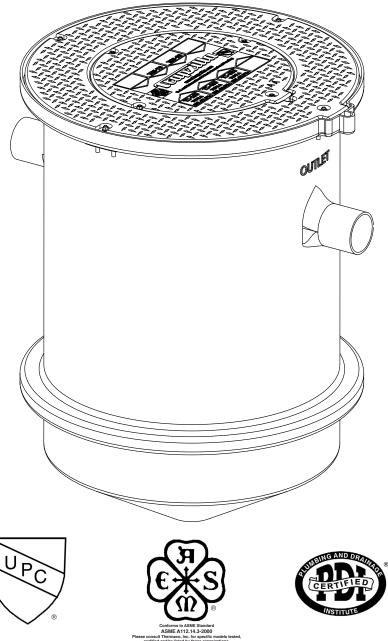
Required Information	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Capacity (gpm)	50	50	50	50
FOG Load Capacity (Ibs) at 99% Efficiency	524.98 lbs	1,049.96 lbs	1,574.94 lbs	2,099.92 lbs
Manufacturer	Thermaco, Inc.	Thermaco, Inc.	Thermaco, Inc.	Thermaco, Inc.
Model No.	TZ-525	TZ-525	TZ-525	TZ-525
3 rd Party Certifier (i.e., PDI, CSA, ASME)	ASME, PDI	ASME, PDI	ASME, PDI	ASME, PDI
Interceptor Monitoring Alarm Model No.	N/A	N/A	N/A	N/A
Interceptor Monitoring Device Model No.	N/A	N/A	N/A	N/A
Solid Separator Make and Model	Thermaco T	SS-95	Thermaco ⁻	TSS-95

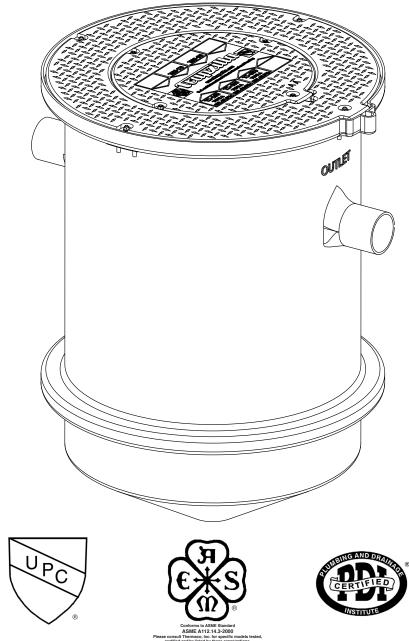
MODEL NUMBERS HAVE TO BE VISSIBLE AT THE TIME OF THE DERM/BUILDING INSPECTION

Updated:6/27/2019



Installation & Maintenance Instructions For Trapzilla99® TZ-525





*Please consult Thermaco, Inc. for specific models tested, certified and/or listed by these organizations.

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For additional information on Trapzilla or other Thermaco products, please visit www.trapzilla.com or call at 1-800-633-4204.



Contents

1.0 System Overview

The **Thermaco**, **Inc. Trapzilla99**[®] Grease Interconstained in kitchen drain water flows. As most food service facility managers already know, grease buildup inside a building's grease containment system is a major cause of problems due to exterior drain line blockages. These problems jeopardize normal operations as well as create health and safety hazards within the facility itself.

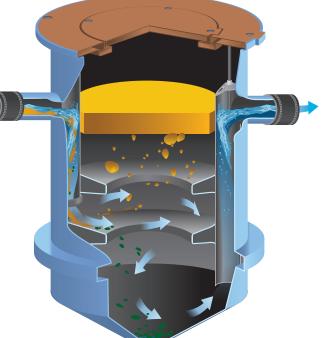
The proper installation of a Trapzilla99® Grease Interceptor can reduce or eliminate grease problems and costly sewer surcharges and fines through efficient separation and retention of free-floating grease & oils.

The Trapzilla offers patented flat separation curve technology. This means that the unit does not lose grease separation efficiency as it fills with retained grease. Thus, the Trapzilla stores large quantities of grease without losing efficiency. The unique compact design of the Trapzilla allows for installation into most facilities. Options are available that enable a Trapzilla unit to be installed on the floor, suspended from the ceiling or in-ground outside the facility.

Trapzilla units are designed to treat high flows of kitchen drainwater with large grease storage capacity within a small footprint unit. These units are easy to maneuver into position and just as easy to plumb.

Grease interceptors, grease traps, automatic recovery units, grease removal devices and other similar plumbing devices receiving kitchen flows from sinks, floor drains, woks and other food bearing sources may generate odors. There are many factors influencing odor evolution and dissemination. These include room ventilation, kitchen menu, ambient temperatures, ware washing practices, grease/oil input, daily input fluid volume, sanitizers, installation plumbing design and product maintenance/upkeep. Odors are usually prevented by good area ventilation, frequent fluid inputs, good product maintenance practices and proper product installation. Additional steps, including aeration, chlorination, pH control, improved area ventilation and additional maintenance may be needed at some sites.

The Thermaco, Inc. Trapzilla99® Grease Interceptor series collects 99% of free-floating grease & oils



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2.4 Options (Some options must be purchased separately)

2.0 Models and Options

Thermaco offers different models and options specifically designed to assist the owner/installer meet site conditions while complying with local pretreatment and plumbing code.

2.1 In-Ground Models

TZ-525-ECA

525 pounds of grease storage at 99% separation effeciency, ASME rated at 50 gpm, while hydromechanically capable of flow rates of up to 150 gpm. Equipped with 4" inlet/outlet, 2" vessel vent connection, and 4" Low-Head Flow Control Accessory to limit flow to 50 gpm.

Comes with: 18" tall Extension Collar Adapter Lid Assembly with 22" diameter lid.

2.2 Above-Ground Models



TZ-525-SSA

525 pounds of grease storage at 99% separation effeciency, ASME rated at 50 gpm, while hydromechanically capable of flow rates of up to 150 gpm. Equipped with 4" inlet/outlet, 2" vessel vent connection, and 4" Low-Head Flow Control Accessory to limit flow to 50 gpm.

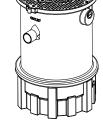
Comes with: Standard Adapter Top Cover with 22" diameter lid, and Support Stand SSOP-400/600.

2.3 Basic Models

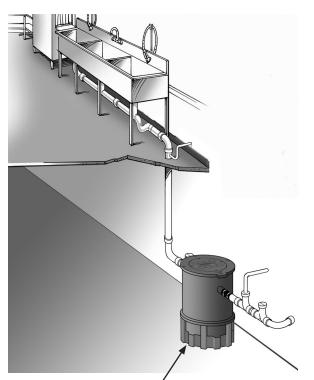
TZ-525

525 pounds of grease storage at 99% separation effeciency, ASME rated at 50 gpm, while hydromechanically capable of flow rates of up to 150 gpm. Equipped with 4" inlet/ outlet, 2" vessel vent connection, and 4" Low-Head Flow Control Accessory to limit flow to 50 gpm.

Comes with: Standard Adapter Lid Ring with 22" diameter lid.







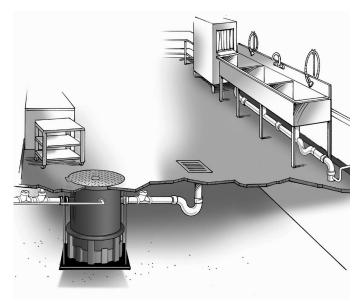
SSOP-400/600 Support Stand for TZ-525 models Allows unit to be installed directly on the floor in a basement or mechanical room. *Included with -SSA Models

ECA-TZ-29 (in blue) for Trapzilla Models

These field-modifiable extension collars available to provide additional depth for existing kitchen drainage piping.

-ECA Models ship with built-in 0-18" extension collar. ECA-TZ-29 adds 0-29" depth to -ECA Models or 4-29" to Basic Models.

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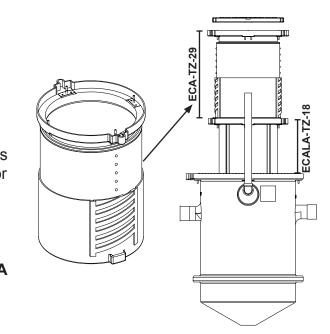


FTCA-36

Fabricated Top Cover Assembly with 36" diameter for additional traction in high foot-traffic areas and 4" Brass cleanout port.

FTCA-22 (not shown)

22" diameter cover available for In-Ground installations.



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3.0 Plumbing Installation

3.1 Plumbing Considerations Prior to Installation

3.1.1 Locating the Unit

The system should be visible and easily accessible for maintenance and inspection. Options are available to install the Trapzilla in a basement, suspended from a ceiling or in-ground in an exterior location. Make sure adequate room is provided around the unit to allow easy access for a pump truck operator. Make sure the height above the Trapzilla access cover is enough to properly service the system.

3.1.2 Inlet/Outlet Piping

The inlet and outlet piping connections require flexible sleeve pipe couplings. Keep outlet piping as straight as possible. Thermaco, Inc. recommends installation of Two-Way Cleanouts on both the Inlet and Outlet of Trapzilla Interceptors and Solids Separators in accordance with all applicable laws, regulations and codes. These cleanouts should match the size of the Inlet and Outlet Piping (i.e. for 4" plumbing, a 4" cleanout should be used). Use only "sweep" connections. Do not reduce the pipe sizing on the outlet piping. Do not install "P" trap on outlet connection of system. (Note: The system already has a internal gas trap)

3.1.3 Flow Controls

Trapzilla systems are tested and rated with an external flow control device and are supplied with a Low-Head Flow Control module (LHFC). This should be connected to the inlet of the Trapzilla unit in situations where flow rate needs to be restricted to the ASME rated flow or when vented flow control is required by local code. TZ-525 models use LHFC-525.

3.1.4 Venting the Outlet

An outlet vent or approved air admittance valve of at least 1/2 the diameter of the system's outlet connection must be present as close as possible to the Trapzilla outlet to prevent possible siphonage problems. The Vent on the Outlet piping is to be installed in accordance with all applicable laws, regulations and codes. Failure to provide a vent for the system voids Thermaco's Limited Warranty for the system.

3.1.5 For High Head Height Applications Over Six (6) Feet (1.95 m)

For installations where there is head height of greater than 6 feet (1.95 meters), Thermaco, Inc. recommends installation of a code-approved Vented Flow Control Assembly (Thermaco VFCA not included with Trapzilla).

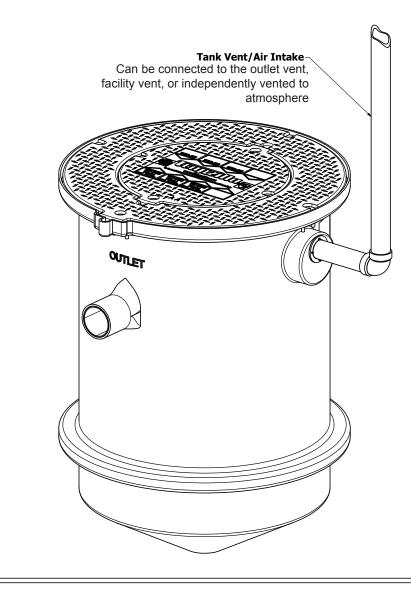
3.2 Vessel Vent Connection

Venting of the Trapzilla tank is recommended by the manufacturer and required for indoor installations.

• Vent the tank through the provided 2" NPT threaded connector on the side of the tank (This vent may be located above the outlet or on the side of the tank depending on model).

Remove and discard the 2" plug and connect 2" vent lines as indicated below.

**Models with 6" Inlet/Outlet have 3" NPT vessel vent



Note: Drawing for reference only. Equipment must be installed in compliance with all applicable laws, regulations and codes, including plumbing codes. Installation should be performed by a qualified plumber.

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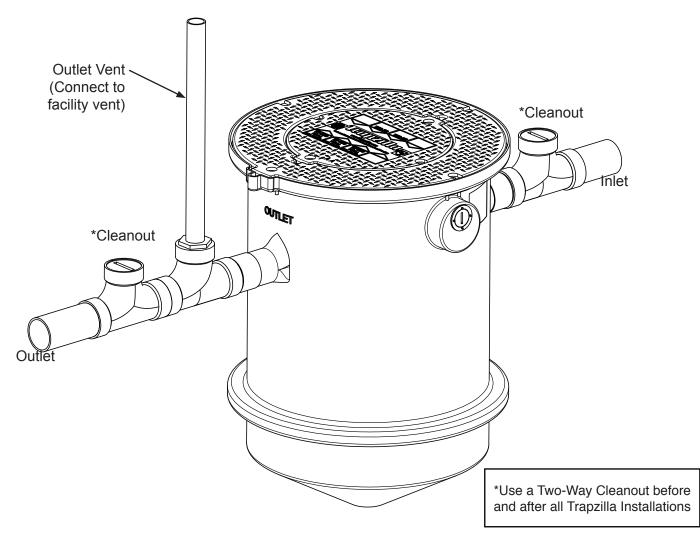
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3.3 Plumbing Configurations

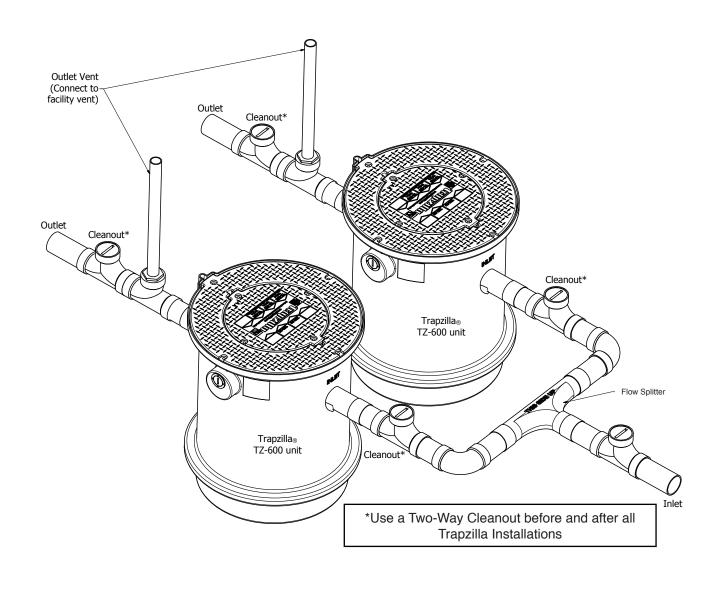
3.3.1 Installing One Trapzilla Unit

Each Trapzilla unit is shipped with a Low Head Flow Control module (see LHFC box for additional instructions). This needs to be installed to the inlet of the Trapzilla and connected to a code-approved air intake. Thermaco, Inc. recommends installation of Two-Way Cleanouts on both the Inlet and Outlet of Trapzilla[®] in accordance with all applicable laws, regulations and codes. **These cleanouts should match the size of the Inlet and Outlet Piping (i.e. for 4" plumbing, a 4" cleanout should be used).** A Vent on the Outlet piping is also to be installed in accordance with all applicable laws, regulations and codes.



3.3.2 Installing Two Trapzilla Units in Parallel

Two Trapzilla Grease Interceptors should be installed in parallel with a Flow Splitter diverting the flow. Place Two-Way Cleanouts before, between and after the units as shown below, including before and after the flow splitter. Make sure to connect an outlet vent after each Trapzilla Grease Interceptor. A Low Head Flow Control (LHFC) is shipped with each unit, and if needed should only be installed after the first Cleanout and before the Flow Splitter.



Note: Drawing for reference only. Equipment must be installed in compliance with all applicable laws, regulations and codes, including plumbing codes. Installation should be performed by a qualified plumber.

Note: Drawing for reference only. Equipment must be installed in compliance with all applicable laws, regulations and codes, including plumbing codes. Installation should be performed by a qualified plumber.

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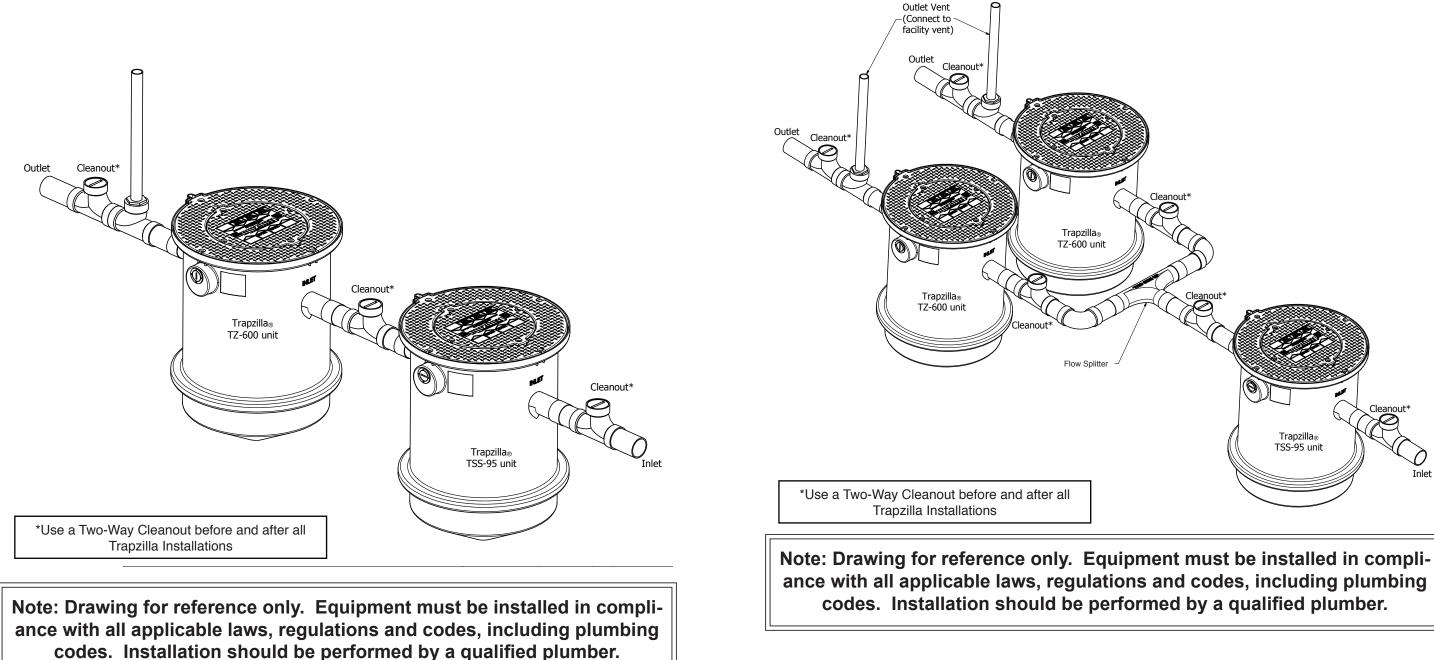


3.3.3 Installing Two Trapzilla GI's in Series or One Solids Separator and One Trapzilla

Alternatively, two Trapzilla Grease Interceptors may be installed in series. A single Trapzilla Solids Separator and Trapzilla Grease Interceptor should always be installed in series. Place Two-Way Cleanouts before, between and after the units as shown below. Make sure to connect an outlet vent after the Trapzilla Grease Interceptor. A Low Head Flow Control (LHFC) is shipped with each unit, and if needed should only be installed after the first Cleanout and before the Trapzilla Solids Separator.

3.3.4 One Solids Separator and Two Trapzilla Units

A single Trapzilla Solids Separator and two Trapzilla Grease Interceptors should be installed by placing the Solids Separator in line and then using a Flow Splitter to divert the water flow to two separate Trapzilla units in parallel. Place Two-Way Cleanouts before, between and after the units as shown below, including before and after the flow splitter. Make sure to connect an outlet vent after the Trapzilla Grease Interceptor. A Low Head Flow Control (LHFC) is shipped with each unit, and if needed should only be installed after the first Cleanout and before the Trapzilla Solids Separator.



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3.3.5 Two Solids Separators and Two Trapzilla Units

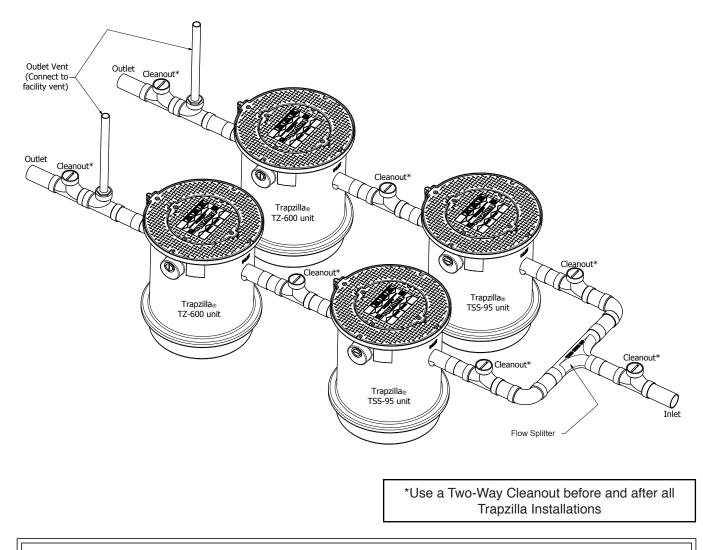
Two Trapzilla Solids Separator and two Trapzilla Grease Interceptors should be installed by placing a Flow Splitter to divert the water flow to two separate Solids Separators and Trapzilla units in parallel. Place Two-Way Cleanouts before, between and after the units as shown below, including before and after the flow splitter. Make sure to connect an outlet vent after the Trapzilla Grease Interceptor. A Low Head Flow Control (LHFC) is shipped with each unit, and if needed should only be installed after the first Cleanout and before the Flow Splitter.

4.0 Above-Ground Installation

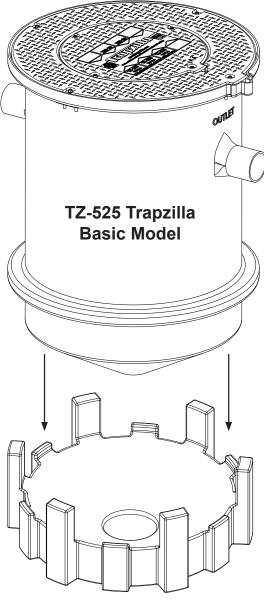
4.1 Components for Above-Ground Installations

Using a model-specific Support Stand, a Trapzilla unit may be installed directly on top of the floor in a location such as a basement or mechanical room. TZ-525: SSOP-400/600

*These items ship with all -SSA models.



Note: Drawing for reference only. Equipment must be installed in compliance with all applicable laws, regulations and codes, including plumbing codes. Installation should be performed by a qualified plumber.



The SSOP Support Stand is a one-piece assembly with a conical center that sits on the floor. It does not add appreciable height to the assembly.

NOTE: SUPPORT STAND MUST BE INSTALLED OVER A CONTINUOUS SURFACE. NON-CONTINUOUS SUR-FACES SUCH AS GRATES ARE NOT SUITABLE FOR SUPPORT.

SSOP-400/600 Support Stand

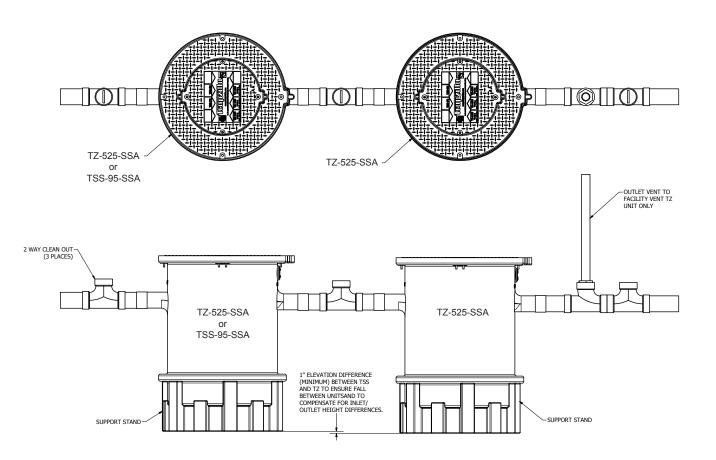
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4.2 Installing Multiple Trapzilla Units in Series

When installing multiple Trapzilla units in series, the change in elevation from the inlet to the outlet of a unit requires that each preceding unit be installed 1" higher than the unit after it. For above-ground units, pressure treated plywood may be placed fully beneath the support stand to create the height difference.

All installations inside of a building must have a vessel vent installed and piped to atmosphere.

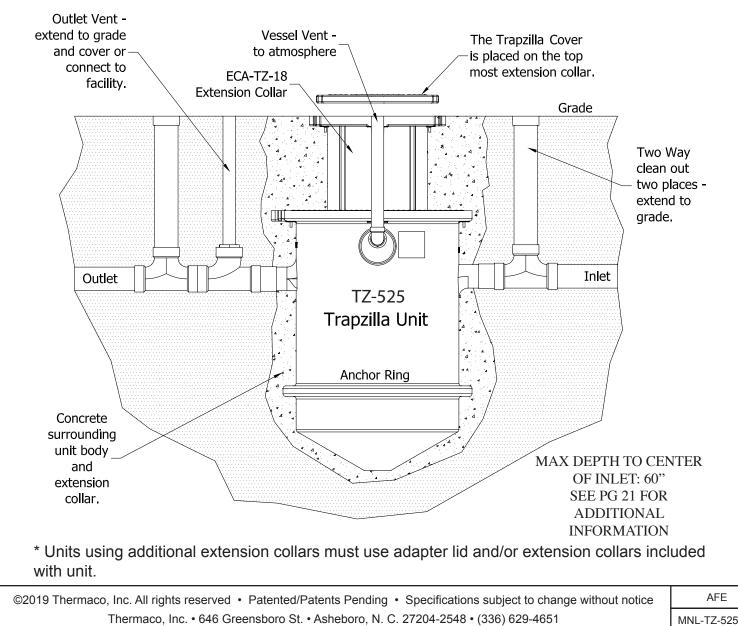


5.0 In-Ground Installation

5.1 Plumbing Instructions for Single Trapzilla Installed In-Ground

A Trapzilla unit may also be installed in the ground outside of the facility. For instances where the facility drainage piping requires an extension collar that is no more than 18", use the instructions for the full TZ-525-ECA unit. If the unit is to be deeper in the ground, the ECA-TZ-29 Extension Collar Assembly may be installed to align the Trapzilla inlet with the drainage piping. The ECA-TZ-29 may be trimmed in the field to fit. Trim both the inner and outer portions of the extension collar to make shorter than collapsed height. Thermaco, Inc. strongly recommends surrounding the in-ground Trapzilla with concrete to provide additional structural strength and to offset buoyancy effects. For Buoyancy Calculations & suggested concrete fill quantities please see page 22. Use the full TZ-525-ECA for 0-18" of collar needed or purchase separately the TZ-525 and ECA-TZ-29 for 4-29" of collar needed.

In-Ground Installations inside of a building must have a vessel vent installed and piped to atmosphere.



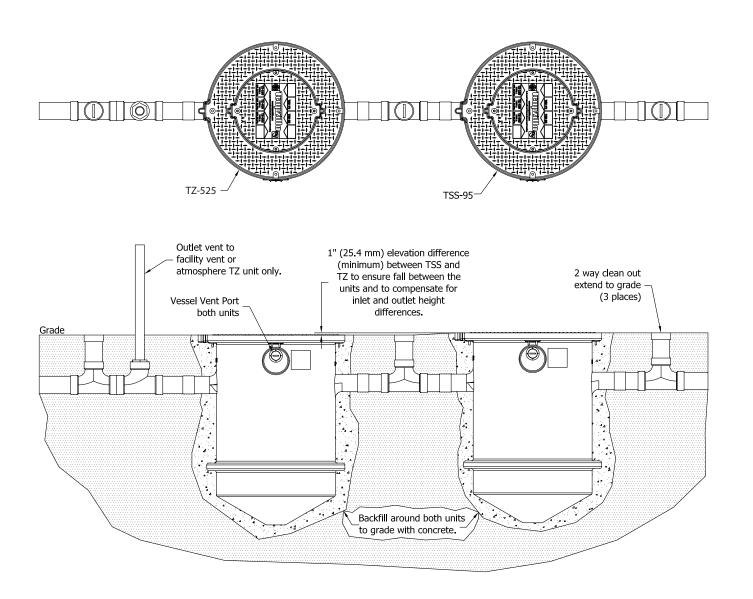
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5.2 Plumbing Instructions for Multiple Trapzilla Units Installed In-Ground

When installing multiple Trapzilla units in series, the change in elevation from the inlet to the outlet of a unit requires each preceding unit to be installed 1" higher than the unit after it.

In-Ground Installations inside of a building must have a vessel vent installed and piped to atmosphere.



* Units using additional extension collars must use adapter lid and/or extension collars included with unit.

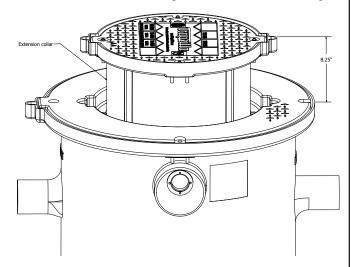
5.3 Trimming and Setting the ECA-TZ-18 Single-Piece Extension Collar

In-Ground Trapzilla Models ship with a built-in, single-piece, 18" extension collar that must be trimmed and then set to the correct height to bring the Solid Top Cover to grade.

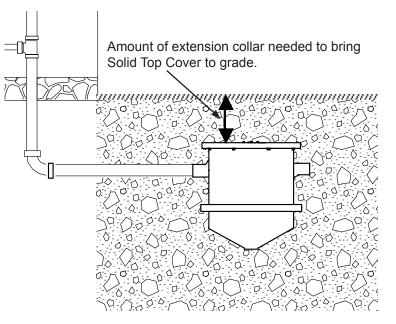
Follow the steps below to set the extension collar prior to backfilling the hole with concrete.

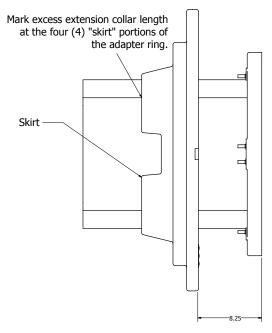
Step 1: With the Trapzilla unit installed in its perma-Step 2: Remove the extension collar adapter ring from the unit with the extension collar still in place. On the underside of the cover, mark the excess extension collar length at the bottom of the four (4) "skirt" portions of the adapter ring. Check the extension collar height dimension frequently during this marking to ensure that the collar has not moved. Extend this mark between the gaps in the "skirt" so that the collar is marked all around.

nent location, raise the telescoping extension collar to finished grade or floor level. Measure the height from the top of the unit to this finished extension collar height and record this dimension. Note: If the floor will have a tile covering alow for the tile thickness when determining the extension collar height



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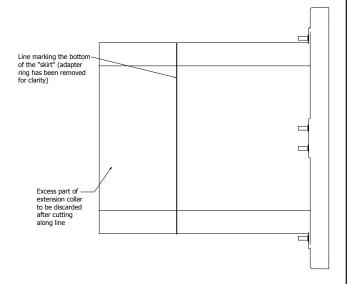




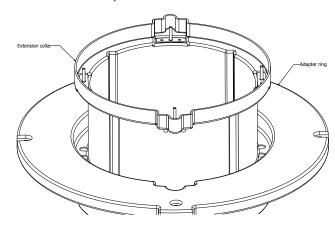
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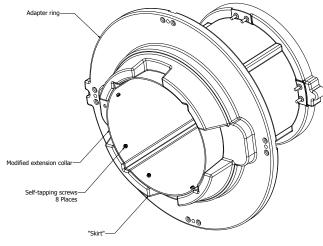
Step 3: Remove the extension collar from the adapter ring and, with an appropriate saw, cut along the line created in Step 2 to remove the excessive extension collar.



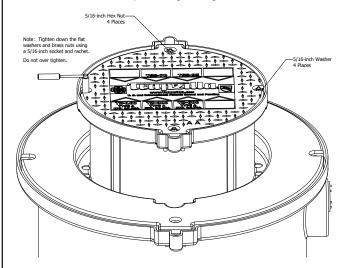
Step 4: Reinsert the extension collar into the adapter ring ensuring that the cover alignment key on the extension collar is aligned with its recess in the adapter ring. Reset the extension collar height to the dimension determined in Step 1.



Step 5: Working from the bottom of the assembly, install eight (8) self-drilling, self-tapping screws (provided) through the extension collar wall and into the adapter ring. Two of these screws should be installed in each of the four (4) skirt areas of the adapter ring. Check the extension collar height dimension frequently during this operation to ensure that the collar has not moved. Note: Use caution when tightening these screws to ensure that they do not strip.



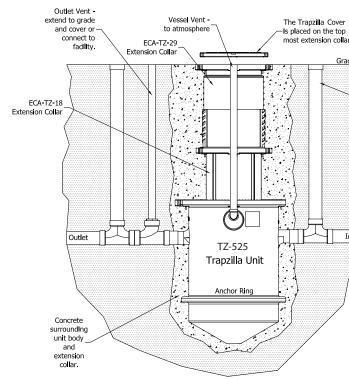
Step 6: Place the adapter ring/extension collar assembly onto the Trapzilla unit. Position the small cover onto the extension collar. Secure the adapter ring and the small cover with the brass nuts and flat washers provided. Seal the gap between the 18" extension collar and extension collar adapter ring using a silicone sealant.



5.4 Concrete Calculations for TZ Models/Components

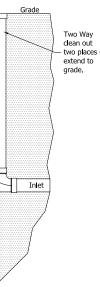
In order to offset the effects of buoyancy caused by groundwater (high water tables), strengthen the sideload of the unit, and prevent movement of the unit in the event of shifting earth, Thermaco, Inc. recommends concrete be poured around the entirety of Trapzilla® units installed in-ground in the amounts of concrete specified in the table below. The concrete must to be poured continuously and completely surrounding the Trapzilla[®] body (and Extension Collars if applicable) to ensure proper strength and security at a compression strength of 4000 psi (C28/35).

	Amount of Concrete	
Trapzilla Model	Weight in lbs. (Kg)	Volume in Cubic Yards (m ³)
TZ-525	1975 (895)	0.50 (0.38)
ECA-TZ-29*	600	0.20



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Pictured Left:

Installation of TZ-525-ECA unit with Built-In 18" Extension Collar fully extended and 29" Two-Piece Extension Collar fully extended for a total of 47" of additional depth for unit. Concrete should fully encircle the unit up to the surface. A small amount of space (up to 4") may be left unfilled to cover with dirt and grass if installed outside.

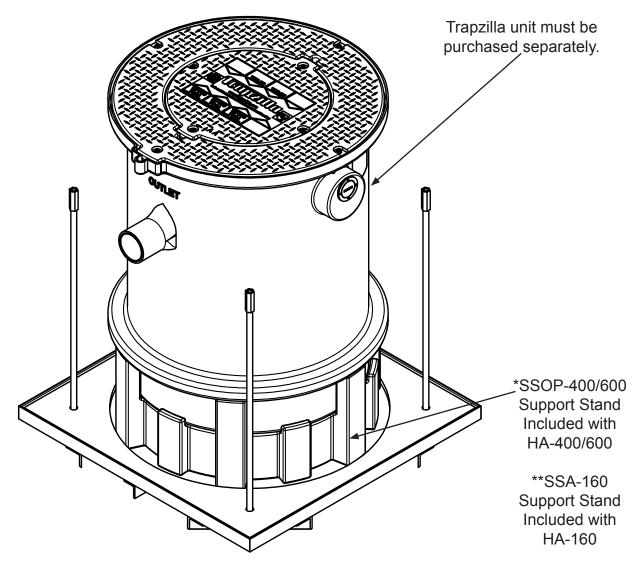
WARNING: PROPER INSTALLA-TION INSTRUCTIONS MUST BE FOLLOWED FOR THERMACO WAR-RANTY TO BE VALID. MAXIMUM **INSTALLATION DEPTH PERMITTED** FOR TRAPZILLA GREASE INTER-**CEPTORS AND SOLIDS SEPARATORS IS 60" MEASURING FROM CENTER OF INLET TO SURFACE.** ANY INSTAL-LATION DEEPER THAN THIS VOIDS THE WARRANTY FOR THE UNIT. CONTACT THERMACO REGARDING INSTALLATIONS EXCEEDING THIS DEPTH.

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6.0 Hanging Installation

Using the Hanging Assembly option, a Trapzilla unit may be suspended from a ceiling below the floor of a kitchen or other room.



Thermaco, Inc. supplies the frame and support stand with the hanging assembly. This kit needs to be installed by a licensed contractor. The contractor is responsible for determining weight loads, preparation of the floor for installation and any construction necessary for installation of the suspension kit.

Note: Drawing for reference only. Equipment must be installed in compliance with all applicable laws, regulations and codes, including plumbing codes. Installation should be performed by a qualified plumber.

7.0 Measuring Grease/Solids Levels

Due to its unique design, Trapzilla is capable of retaining high quantities of grease in a compact footprint. Therefore, unlike traditional interceptors, Trapzilla can hold an extraordinarily high percentage of its volume in grease without losing separation efficiency. To determine the current levels of grease/solids in your Trapzilla grease interceptor, follow the instructions below.

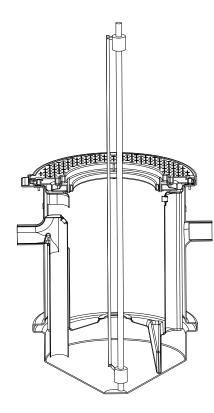
1. Remove four nuts/washers securing the Solid Top Cover. Note the size of the unit which is marked on the cover by a metal plate.

2. Place a grease/sludge dipstick into the center of the Trapzilla, making sure that it goes through the hole in the horizontal baffle.

3. Once the dipstick has found its natural resting place at the lowest point in the conical shaped bottom, take the measurement.

4. Remove dipstick and compare grease/sludge levels to the corresponding unit in the charts below.

	Grease		Solids	
	Total Capacity (depth):	Ready to pump at (depth):	Total Capacity (height):	Ready to pump at (height):
TZ-525	15"	12"	14"	12"



Take grease measurement from top of liquid level downward and compare to chart above.

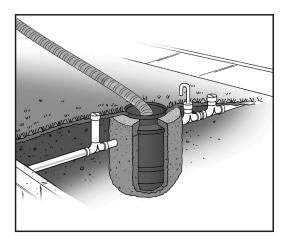
Take solids/sludge measurement from bottom of unit upward and compare to chart above.

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oro, N. C. 27204-2548 • (336) 629-4651	MNL-TZ-525 22



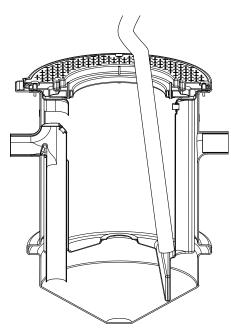
8.0 Unit Maintenance

Periodically, the Trapzilla[®] unit will need to be serviced which involves pumping out the accumulated grease & solids. Each lid has four brass nuts securing the lid. Fully remove the lid to access the grease. Begin by taking the grease from the top of the main chamber. Upon reaching the horizontal baffle, you will see a hole through which you may access the rest of the grease and the solids. Be sure to lower the hose all the way to the bottom of the Trapzilla unit so that solids may be entirely removed.

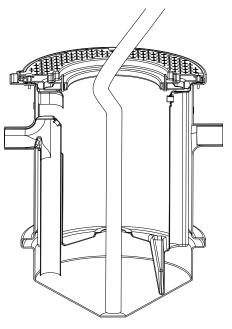


Note:

- 1. <u>DO NOT</u> use mechanical crust breaking devices to break down any mat that has formed inside the Trapzilla unit.
- 2. Remove the four brass nuts from the bolts and fully remove the lid to pump out.
- 3. It is not necessary to remove adapter lid (ring) to pump out Trapzilla.
- 4. If necessary, use a water hose with spray nozzle to rinse off inside of unit.
- 5. <u>DO NOT</u> use grinding augers in maintenance of the Trapzilla unit.



Begin by pumping grease from upper chamber, until you can see the entire horizontal baffle. May be necessary to use water hose to rinse out parts of upper chamber.



Drop hose into lower chamber through hole in horizontal baffle, pumping out all liquids and solids remaining. Again, it may be necessary to use water hose to rinse out lower chamber.

9.0 Limited Warranty and Remedy

Thermaco Incorporated warrants to the original user that the outer tank and inner tank components of the product manufactured by Thermaco and delivered with this warranty (the "Product") shall be free from material defects in workmanship and materials during the lifetime of the plumbing system in which the Product is initially installed. Notwithstanding the foregoing, this warranty shall not cover, and Thermaco shall have no obligation to repair or replace, any of the following component parts of the Product: lid, gaskets, brackets, nuts, and flow control.

Any and all warranty claims must be made in writing to Thermaco at 646 Greensboro Street, Asheboro, NC 27203 promptly after discovery of the defect giving rise to the warranty claim. Following and subject to Thermaco's preliminary approval of a warranty claim, the warrantied Product must be delivered, prepaid, to Thermaco, together with proof of purchase and a return authorization number issued by Thermaco. If Thermaco determines that the Product is defective, the defect is covered by this warranty, and the warranty conditions are satisfied, Thermaco's sole obligation under this warranty, and the sole and exclusive remedy with respect to any such defect, is the repair or replacement, at Thermaco's option, of the defective equipment, component, or parts. Any replacements will be furnished F.O.B. point of shipment. Thermaco reserves the right to ship the user replacement parts with installation instructions. If Thermaco determines that the part, component, or the Product is not defective or that any condition of this warranty is not satisfied, then Thermaco shall have no obligation to repair or replace any such part, component, or the Product, and any costs associated with the return of such part, component, or the Product shall be borne by the party making the warranty claim.

This warranty shall not cover any defect in an otherwise covered Product resulting directly or indirectly from (and the occurrence of any of the following shall void any otherwise applicable warranty claim): (i) failure to install, operate or maintain the product in accordance with the Installation and Operation Manual that was included with the Product when it was sold and all other applicable Thermaco instructions and procedures, including, without limitation, use of mechanical crust breaking devices, use with grinding augers, use in excess of rated flow, use in excess of rated grease capacity, use to remove emulsified fats and oils 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 persons other than Thermaco representatives or certified plumbers; (iv) any change in the original installation or change to the original use of the Product; or (v) other causes not arising out of defects in workmanship or materials. Thermaco shall not be responsible for damage to products resulting from ultraviolet light exposure, floating of tank, vault flooding, sewer line back-up, pumping or lift station failure, ambient water flow, freezing, or other sources of water damage. This warranty does not cover equipment or parts not manufactured by Thermaco. Original user'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 the original user. 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 and replaces any quote, brochure, or other statement or document with respect to warranty of the Product.

EXCEPT AS EXPRESSLY SET FORTH ABOVE, THERMACO 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 or any other claim relating to defects or any other condition or use of 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 affected Product, component, or parts, in each case excluding labor or any other cost to remove or install the Product or, at Thermaco's sole option, refund of the original purchase price. IN NO EVENT SHALL THERMACO 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 PRODUCT COVERED HEREBY EXCEED THE NET PURCHASE PRICE RECEIVED BY THERMACO FOR THE PRODUCTS. This Warranty is made only for the benefit of the original user and is void upon any transfer of ownership or changes in installation. Note: Do not Pressure/Hydrostatic test our Products.

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