



HIGH-PERFORMING ENERGY EFFICIENT SOLUTIONS

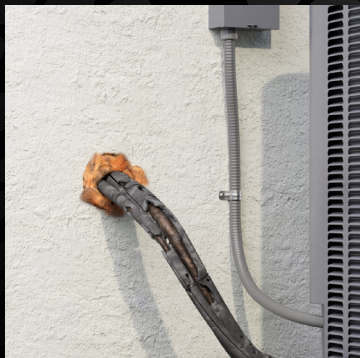
NEW

2 -Piece Titan TRS Series
For Retrofit Installations



CATALOG 2024

All of our superior products have been innovated through intense engineering, smart design, premium material selection, and rigorous laboratory testing. We are now the #1 Choice in the PRO-HVAC industry within the wall refrigerant piping penetration outlet seal and outdoor refrigerant piping insulation protection categories.



BEFORE



AFTER



BEFORE



AFTER



BEFORE



AFTER

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PRODUCT LINE



TRS Series
New Two-Piece Retrofit Model



TGS Series
Premium Seal From Air & Moisture



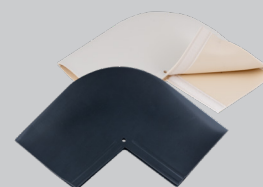
TSS Series
Slim, Compact Design



72 Series



750 Series



90 Series



Box Contents - TRS Series



Box Contents - TGS Series



Box Contents - TSS Series

Visit our website for product information, inquiries, specifications, brochures, CAD drawings, and more.

www.AirexMfg.com

Be proud to use quality products.

Our products are designed for the life of the unit,
and in some cases, can outlast the building itself.

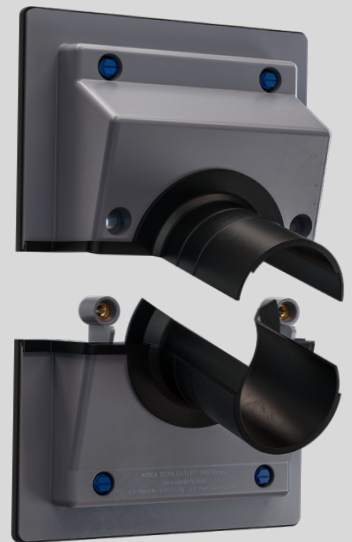


NEW RETROFIT TRS

The **AIREX TITAN OUTLET™** is an engineered wall enclosure system that seals and protects HVACR piping penetrations from weather damage, air leakage, pipe vibration, and pests to help HVACR professionals aesthetically meet mandatory building requirements and energy efficiency standards.



3/4" GASKET RETROFIT



PROFESSIONAL AESTHETICS

- Retrofit Design Ensures a Clean Looking Installation Without Disconnecting HVACR Equipment.
- Improve Aesthetics of HVACR, Plumbing, Conduit and Other Outdoor Piping Penetrations.
- Engineered Design with an Architectural Finish.

PERFORMANCE BENEFITS

- Improves HVAC Equipment and Building Wall Energy Performance by Protecting Penetration and Piping from Weather and Physical Damage.
- Excellent Performance Against Air Leakage, Moisture Infiltration, and Pest Intrusion.
- Excellent Heat and Chemical Resistance to Prevent Outdoor Degradation.
- Simple and Efficient Installation.

DURABILITY FEATURES

- Outlet Body, Outlet Sleeve and Gasket Utilize Superior Outdoor Resistant Materials.
- Gasket Provides Long Term Positive Seal with Excellent Weather Resistance.
- Retrofit Design allows outlet to be Removeable and Reusable for Maintenance.
- Includes Corrosion Resistant Hose Clamp, Anchor Screws with Gasket Washers and Lubricant for a long-lasting Installation.

OUR PRODUCTS AREN'T JUST DESIGNED TO **MEET STANDARDS**.
THEY'RE DESIGNED TO SET **NEW ONES**.

MAKESHIFT METHODS ARE GUARANTEED TO FAIL



- ❌ BUILDING DAMAGE ❌ UNHEALTHY INDOOR AIR
- ❌ ENERGY LOSS ❌ RODENT INTRUSION
- ❌ UNPROFESSIONAL, UGLY INSTALLATIONS

OUR SOLUTION IS PROFESSIONALLY ENGINEERED & LONG-LASTING



- ✅ PIPE VIBRATION CONTROL ✅ AIRTIGHT SEAL
- ✅ SUSTAINABLE ENERGY SAVINGS
- ✅ RODENT PROOF ✅ AESTHETIC INSTALLATION

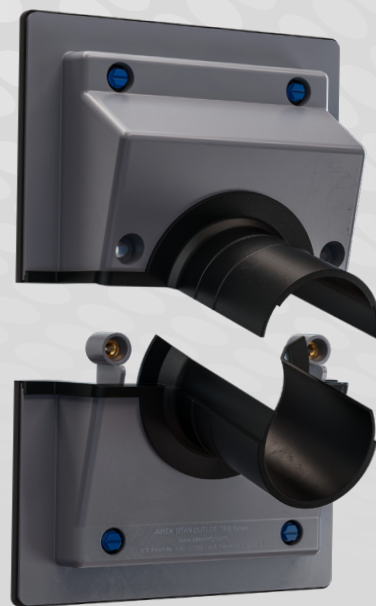


PRODUCT SUMMARY

The **AIREX TITAN OUTLET™** is an engineered wall enclosure system that seals and protects HVACR piping penetrations from weather damage, air leakage, pipe vibration, and pests to help HVACR professionals aesthetically meet mandatory building requirements and energy efficiency standards. Utilizing weather resistant and outdoor durable engineered polymers, the AIREX TITAN OUTLET™ enclosure is made of ASA polymer, while the elastomeric outlet sleeve is made of an engineered TPE polymer for airtight sealing around HVAC piping. The enclosure and sleeve are bonded together through a process called over-molding, chemically and mechanically bonding them together as one piece. The wall surface gasket attached to the outlet enclosure is durable PVC foam that creates a positive seal on irregular surfaces. Included accessories consist of 4 carbon steel anchor screws and one stainless-steel clamp to ensure outdoor installation durability. Utilize the AIREX TITAN OUTLET™ to aesthetically meet mandatory building requirements and energy efficiency standards.

SEALS OUTDOOR PIPE PENETRATIONS!

- Improves HVACR equipment performance by protecting from weather and physical damage.
- Creates highest quality positive gasket seal, protecting from weather, eliminating rodent and pest intrusion, ending wall air leakage, reducing moisture damage to walls, increasing overall energy efficiency, and improving indoor air quality.
- With a sleek architectural finish, it improves the aesthetics of HVACR, plumbing, conduit, and other outdoor piping penetrations.
- Superior quality and excellent heat/chemical resistant materials and integral over-molded flexible elastomeric sleeve design ensures long-lasting durability.
- Meets mandatory building, energy, residential, mechanical, and green codes
- Made in the USA
- Engineered design supports HVAC systems with wall isolation & anti-vibration features
- Includes corrosion resistant hose clamp, anchor screws with elastomeric washers and lubricant for a long-lasting installation.
- Available in standard 3/16" gasket, as well as thicker 3/4" gasket ideal for uneven wall surfaces like lap siding or rugged masonry.

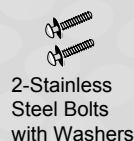


RETROFIT



FULL CODE COMPLIANCE INSTALLATION

- Outlet Body, Outlet Sleeve made of Superior Outdoor Resistant Materials.
- Retrofit Design Allows Outlet to be Removable and Reusable for Maintenance.
- Includes Corrosion Resistant Hose Clamp, Anchor Screws with Gasket Washers and Lubricant for a Long-lasting Installation.



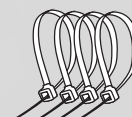
2-Stainless Steel Bolts with Washers



4-Anti-Corrosion, All-Material Tap Screws w/Neoprene Washers



1-Adjustable Hose Clamp



4-Cable Ties

SUPERIOR PERFORMANCE

NEW
RETROFIT INSTALLATIONS



APPROVED PERFORMANCE TESTING	APPROVED MATERIAL TESTING
ASTM E283 Air Leakage UL 746C Outdoor Stability-F1 Rating ASTM E331 Water Penetration ASTM E2178 Air Permeability	ASTM D1525C-09 Temperature Deformation ASTM D648-07 Temperature Load Deformation UL 94 HB Flammability ASTM D573-04 Deterioration ASTM D746-07 Brittleness Temperature

CODES & STANDARDS COMPLIANCE

2012, 2015, 2018, 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) Commercial • Air Leakage (Mandatory) - C402.4 & C402.4.2 (2012); C402.5 & C402.5.1.1(3) (2015, 2018) • Air Barrier Penetration (2018) - C402.5.1.1 • Penetrations of the air barrier shall be caulked, gasketed or otherwise sealed. Sealing shall allow for expansion and contraction of materials and mechanical vibration Residential • Air Leakage (Mandatory) Section R402.4.1, R402.4.1.1, R402.4.1.2 (2012, 2015); R402.4, R402.4.1.1, R402.4.1.2 (2018) Building Thermal Envelope - Penetrations	2016, 2018, 2021 UNIFORM MECHANICAL CODE (UMC) CHAPTER 11 REFRIGERATION • Scope 1101.0; General 1106.0; Support 1106.2; Piping Vibration & Strain 1111.1; Support 1111.2, piping and tubing shall be securely fastened to a permanent support within six (6) feet from the compressor; Visual Inspection 1111.4
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- 2016, 2019, 2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24 ENERGY CODE)

► 2016, 2018, 2021 UNIFORM MECHANICAL CODE (UMC)

► 2012, 2015, 2018, 2021 INTERNATIONAL MECHANICAL CODE (IMC) CHAPTER 3
- 2012, 2015, 2018, 2021 INTERNATIONAL BUILDING CODE (IBC) APPENDIX F

► 2012, 2015, 2018, 2021 INTERNATIONAL RESIDENTIAL CODE (IRC) CHAPTER 11 PART IV ENERGY EFFICIENCY

PRODUCT OVERVIEWS



PRODUCT SUMMARY

AIREX E-FLEX GUARD™ is a protective cover for HVAC piping exposed to outdoor elements, and it consists of a proprietary vinyl, engineered to ensure durability while performing as a Class II Vapor Retarder to resist moisture damage to insulation and piping. AIREX E-FLEX GUARD™ features chemically and mechanically bonded hook and loop fasteners which are high-temperature welded and double stitched into the vinyl with specially treated nylon, ensuring durability even if cut. Accessories include UV nylon cable ties to secure against tampering. Utilize AIREX E-FLEX GUARD™ to aesthetically meet mandatory building requirements and energy efficiency standards.



- Outdoor UV/Weather Grade Resistant Construction
- Fast Install, Dual Bonded Hook & Loop Fastening System
- Removable/Reusable for Maintenance
- Protector and Class II Vapor Retarder (All-In-One)



PERFORMING INSULATION PROTECTION

- Allows moisture to escape while being waterproof on the outside, keeping the insulation intact and preventing corrosion.
- Outdoor line set protection from solar radiation, ice, fire, fungus, and more -- extending life and performance of outdoor line-sets and insulation.
- Meets mandatory building, energy, residential, mechanical, and green codes
- Heat and weather-resistant Velcro is molecularly bonded with double stitching to ensure a solid grip, even when removed and reapplied.
- Includes UV-resistant nylon cable ties to secure against wind and tampering
- Made in the USA
- Manufactured to allow cutting to desired length without fraying
- Comes in three diameters/widths to accommodate various line-sets
- 90° angle fittings available



72 Series



750 Series



90 Series

APPROVED MATERIAL TESTING

ASTM G153 Weatherization & UV Exposure
ASTM D570 Water Absorption
ASTM E96 Water Vapor Permeability

ASTM E84/UL 723 Flame & Smoke Rating 25/450
ASTM G21 Anti-Fungal/Antimicrobial
ASTM D412 Tension Deformation Test

CODES & STANDARDS COMPLIANCE

IECC - 2012, 2015, 2018, 2021 PROTECTION OF PIPING INSULATION

Commercial Section

- C403.2.8.1 (2018), C403.2.10.1 (2015), C403.2.8.1 (2012)

Residential Section

- R403.3.1, (2012, 2015), R403.4.1 (2018) Protection of Piping Insulation: Piping insulation exposed to weather shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, wind and shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall not be permitted. ECC - 2012, 2015, 2018 Protection of Piping Insulation

- ▶ 2016, 2019, 2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24 ENERGY CODE)
- ▶ INTERNATIONAL MECHANICAL CODE 1107.7 - EXPOSURE OF REFRIGERANT PIPE JOINTS.
- ▶ 2018, 2021 INTERNATIONAL RESIDENTIAL CODE (IRC)

- ▶ ASHRAE STANDARD 90.1 – 2013, 2016, 2019, 2022
- ▶ 2009, 2012, 2015, 2018, 2021 INTERNATIONAL MECHANICAL CODE (IMC) CHAPTER 3
- ▶ 2009, 2012, 2015, 2018, 2021 UNIFORM MECHANICAL CODE (UMC) CHAPTER 11 REFRIGERATION

PRODUCT OVERVIEWS



PRODUCT SUMMARY

The AIREX PRO-SYSTEM KIT™ is a 2-in-1 system used to gasket seal HVACR piping penetrating through exterior walls from air leakage (AIREX TITAN OUTLET™) and to protect pipe insulation from outdoor weather and physical damage (AIREX E-FLEX GUARD™). The AIREX TITAN OUTLET™ mechanically fastens to exterior vertical wall surfaces while its elastomeric sleeve secures and isolates HVACR piping for mechanical vibration. The AIREX E-FLEX GUARD™ protective jacket mechanically connects to the TITAN OUTLET's wall sleeve with a stainless-steel clamp, supplying a complete pipe protection system to achieve optimal HVACR performance and long-term durability. Utilize the AIREX PRO-SYSTEM KIT™ to aesthetically meet mandatory building requirements and energy efficiency standards.



**BEST OF IBS
AWARDS**
FINALIST
BEST ENERGY
EFFICIENT
PRODUCT



UV Weatherized
Protection



Class II Vapor
Retarding



Removable
Reusable



Air
Leakage



Rodent
Intrusion



Indoor
Air Quality



Pipe
Vibration

SUPERIOR PIPE PROTECTION SYSTEM

- 2-in-1 kit includes all you need to achieve a mechanical wall seal and superior outdoor insulation protection
- Long-lasting with 10-year warranty, removable & reusable
- Sustainable energy savings (BEST OF IBS Award Finalist, Best Energy Efficient Product)
- Meets mandatory building, energy, residential, mechanical, and green codes
- Impermeable to water, yet has needed permeability to vapor (Class II Vapor Retarder)
- Rodent proof
- Controls damaging pipe vibration
- Works with both central and ductless installations
- Made in the USA

APPROVED PERFORMANCE TESTING

ASTM E283 Standard Test Method for Air Leakage
ASTM E331 Standard Test Method for Water Penetration
ASTM D1525C-09 Temperature Deformation Test
ASTM D648-07 Temperature Load Deformation Test
UL 94 HB Flammability Test
UL 746C Outdoor Suitability - f1 Rating

APPROVED MATERIAL TESTING

ASTM D573-04 Deterioration Test
ASTM G153 Weatherization and UV Exposure
ASTM E96 Water/Vapor Permeability
ASTM G21 Anti-Fungal/Anti-Microbial
ASTM D570 Water Absorption
ASTM E84/UL 723 Flame and Smoke Rating 25/450

TGS Series



TRS Retrofit Series



TSS Series



CODES & STANDARDS COMPLIANCE

2012, 2015, 2018, 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)

Commercial

- Air Leakage (Mandatory) – C402.4 & C402.4.2 (2012); C402.5 & C402.5.1.1(3) (2015, 2018)
- Air Barrier Penetration (2018) – C402.5.1.1
- Penetrations of the air barrier shall be caulked, gasketed or otherwise sealed. Sealing shall allow for expansion and contraction of materials and mechanical vibration

Residential

- Air Leakage (Mandatory) Section R402.4.1, R402.4.1.1, R402.4.1.2 (2012, 2015); R402.4, R402.4.1.1, R402.4.1.2 (2018)
- Building Thermal Envelope – Penetrations

2016, 2018, 2021 UNIFORM MECHANICAL CODE (UMC) CHAPTER 11 REFRIGERATION

- Scope 1101.0; General 1106.0; Support 1106.2; Piping Vibration & Strain 1111.1; Support 1111.2, piping and tubing shall be securely fastened to a permanent support within six (6) feet from the compressor; Visual Inspection 1111.4

IECC – 2012, 2015, 2018, 2021 PROTECTION OF PIPING INSULATION

Commercial

- C403.2.8.1 (2018), C403.2.10.1 (2015), C403.2.8.1 (2012)

Residential

- R403.3.1, (2012, 2015), R403.4.1 (2018) Protection of Piping Insulation: Piping insulation exposed to weather shall be protected from damage, including that due to sunlight, moisture, Equipment Maintenance, wind and shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall not be permitted.

► 2012, 2015, 2018, 2021 INTERNATIONAL BUILDING CODE (IBC) APPENDIX F

- Rodent Proofing F101.3

► 2012, 2015, 2018, 2021 INTERNATIONAL RESIDENTIAL CODE (IRC) CHAPTER 11 PART IV ENERGY EFFICIENCY

- General N1101; Scope N1101.1; Air Leakage N1102.4; Building Thermal Envelope N1102.4.1 – (1. All joints, seams, penetrations)

► 2012, 2015, 2018, 2021 INTERNATIONAL MECHANICAL CODE (IMC) CHAPTER 3

- General 301.1; Energy Utilization 301.2; Listing, Labeling 301.7, 301.11; Vibration Isolation 301.13; Rodent Proofing 301.17; Wind Resistance 301.15; Piping Support 305, 305.1, 305.2, 305.4; Refrigeration Piping 1107 ASME B31.5

► 2016, 2019, 2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24 ENERGY CODE) Commercial, Residential Sections

Commercial & Residential

- Air Leakage (Mandatory) – Section 110.7 All joints, penetrations and other openings in the building envelope that are potential sources of air leakage shall be caulked, gasketed, weather stripped, or otherwise sealed to limit infiltration and exfiltration

► 2016, 2019, 2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24 ENERGY CODE)

Commercial

- Requirement for Pipe Insulation, Section 120.3(a) 1. (b) 1. & 2.

Residential

- Requirement for Pipe Insulation, Section 150.0(j)3. A. & B.

► INTERNATIONAL MECHANICAL CODE 1107.7 – EXPOSURE OF REFRIGERANT PIPE JOINTS

- Refrigerant pipe joints erected on the premises shall be exposed for visual inspection prior to being covered or enclosed.

► 2018, 2021 INTERNATIONAL RESIDENTIAL CODE (IRC)

- Refrigerant Line Insulation Protection – M1411.61, Section N1103.4.1

► 2013, 2016, 2019, 2022 ASHRAE STANDARD 90.1

- a. Insulation exposed to weather shall either be rated for outdoor use or be installed with a cover suitable for outdoor service; e.g., including but not limited to protected by aluminum, sheet metal, painted canvas, or plastic cover. Cellular foam insulation shall be protected as above or painted with a coating that is water retardant and provides shielding from solar radiation that can cause degradation of the material.
- b. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder facing, or the insulation shall be installed at the thickness that qualifies as a Class I or Class II vapor retarder.

► 2009, 2012, 2015, 2018, 2021 INTERNATIONAL MECHANICAL CODE (IMC) CHAPTER 3

- General regulations Section 301.1 Scope, Sections 301.10, 301.11, 301.14, 301.15, 305.1, 305.2, 305.4

► 2009, 2012, 2015, 2018, 2021 UNIFORM MECHANICAL CODE (UMC) CHAPTER 11 REFRIGERATION

- Section 1101.0 Scope, Section 1101.1 – General Requirements Section 1106.0, Section 1111.0 Erection of Refrigerant Piping & Vibration – Sections 1111.1, 1111.2, 1111.4



HOW TO ORDER

TRS-575-G-34

TITAN
MODEL SERIES
TRS, TGS, TSS

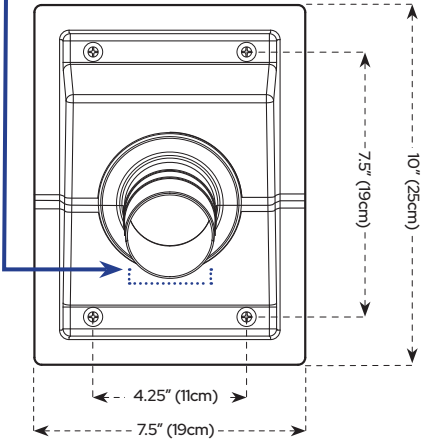
TITAN ELASTOMERIC
SLEEVE DIAMETER
550=1-3/4"
575=2-3/8"
510=3-1/4"

COLOR
G=Gray
W=White

OPTIONAL
If thicker 3/4" gasket is
desired, include extension
Only available for
TGS & TRS Series

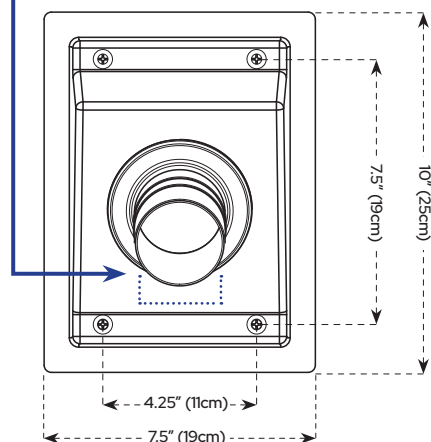
TRS

			LINE SET ACCOMMODATED			
	Part Number	Color	Sleeve Diameter	Tube Size	Pipe Insulation Thickness	Both Lines
550 SERIES	TRS-550-G TRS-550-G-34	Gray	1.70" (4cm)	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	1/2" (19mm)	3/8"
	TRS-550-W TRS-550-W-34	White				
575 SERIES	TRS-575-G TRS-575-G-34	Gray	2.38" (6cm)	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	3/4" (19mm)	1/2"
	TRS-575-W TRS-575-W-34	White		1-1/8" (29mm)	1/2" (13mm)	
510 SERIES	TRS-510-G TRS-510-G-34	Gray	3.19" (8cm)	3/4" (19mm) 7/8" (22mm)	1" (25mm)	3/4"
	TRS-510-W TRS-510-W-34	White		1-1/8" (29mm)	3/4" (19mm)	



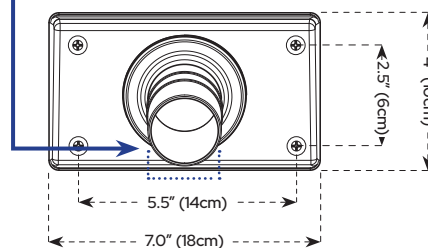
TGS

			LINE SET ACCOMMODATED			
	Part Number	Color	Sleeve Diameter	Tube Size	Pipe Insulation Thickness	Both Lines
550 SERIES	TGS-550-G TGS-550-G-34	Gray	1.70" (4cm)	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	1/2" (19mm)	3/8"
	TGS-550-W TGS-550-W-34	White				
575 SERIES	TGS-575-G TGS-575-G-34	Gray	2.38" (6cm)	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	3/4" (19mm)	1/2"
	TGS-575-W TGS-575-W-34	White		1-1/8" (29mm)	1/2" (13mm)	
510 SERIES	TGS-510-G TGS-510-G-34	Gray	3.19" (8cm)	3/4" (19mm) 7/8" (22mm)	1" (25mm)	3/4"
	TGS-510-W TGS-510-W-34	White		1-1/8" (29mm)	3/4" (19mm)	



TSS

			LINE SET ACCOMMODATED			
	Part Number	Color	Sleeve Diameter	Tube Size	Pipe Insulation Thickness	Both Lines
550 SERIES	TSS-550-G	Gray	1.70" (4cm)	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	1/2" (19mm)	3/8"
	TSS-550-W	White				
575 SERIES	TSS-575-G	Gray	2.38" (6cm)	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	3/4" (19mm)	1/2"
	TSS-575-W	White		1-1/8" (29mm)	1/2" (13mm)	





HOW TO ORDER

72 E-B

SERIES	DIAMETER	COLOR
72= 6'	E= 1-3/4"	B= Black
750= 75'	C= 2-3/8"	W= White
90= 90° Angle	X= 3-1/4"	
	V= 4-1/8"	

V Series only available for 750 & 90 Series

72 SERIES: 6' (1.82M)



					LINE SET ACCOMODATED	
	Part Number	Color	Diameter	Width	Tube Size	Pipe Insulation Thickness
E SERIES	72E-B	Black	1.7" (4cm)	8" (20cm)	5/8" (16mm)	1/2" (13mm)
	72E-W	White			3/4" (19mm) 7/8" (22mm)	
C SERIES	72C-B	Black	2.38" (6cm)	9.5" (24cm)	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	3/4" (19mm)
	72C-W	White			1-1/8" (29mm)	1/2" (13mm)
X SERIES	72X-B	Black	3.19" (8cm)	11.5" (29cm)	3/4" (19mm) 7/8" (22mm)	1" (25mm)
	72X-W	White			1-1/8" (29mm)	3/4" (19mm)



750 SERIES: 75' (22.8M)



					LINE SET ACCOMMODATED	
	Part Number	Color	Diameter	Width	Tube Size	Pipe Insulation Thickness
E SERIES	750E-B	Black	1.7" (4cm)	8" (20cm)	5/8" (16mm)	1/2" (13mm)
	750E-W	White			3/4" (19mm) 7/8" (22mm) ¹	
C SERIES	750C-B	Black	2.38" (6cm)	9.5" (24cm)	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	3/4" (19mm)
	750C-W	White			1-1/8" (29mm)	1/2" (13mm)
X SERIES	750X-B	Black	3.19" (8cm)	11.5" (29cm)	3/4" (19mm) 7/8" (22mm)	1" (25mm)
	750X-W	White			1-1/8" (29mm)	3/4" (19mm)
V SERIES	750V-B	Black	4.13" (10.5cm)	14" (35.5cm)	2-1/8" (5.4cm) 1-3/8" (3.5cm)	3/4" (1.9cm) 1" (2.54cm)
	750V-W	White			1-1/8" (2.86cm)	1" (2.54cm)

90 SERIES

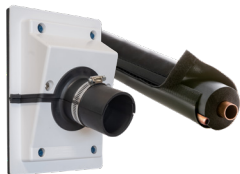


					LINE SET ACCOMMODATED	
	Part Number	Color	Diameter	Width	Tube Size	Pipe Insulation Thickness
E SERIES	90E-B	Black	1.7" (4cm)	8" (20cm)	5/8" (16mm)	1/2" (13mm)
	90E-W	White			3/4" (19mm) 7/8" (22mm)	
C SERIES	90C-B	Black	2.38" (6cm)	9.5" (24cm)	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	3/4" (19mm)
	90C-W	White			1-1/8" (29mm)	1/2" (13mm)
X SERIES	90X-B	Black	3.19" (8cm)	11.5" (29cm)	3/4" (19mm) 7/8" (22mm)	1" (25mm)
	90X-W	White			1-1/8" (29mm)	3/4" (19mm)
V SERIES	90V-B	Black	4.13" (10.5cm)	14" (35.5cm)	2-1/8" (5.4cm) 1-3/8" (3.5cm)	3/4" (1.9cm) 1" (2.54cm)
	90V-W	White			1-1/8" (2.86cm)	1" (2.54cm)

MODEL NUMBERS AND SIZING



TITAN TRS WITH 6' E-FLEX GUARD



	Part Number	Titan Outlet Color	E-Flex Guard Color	LINE SET ACCOMMODATED	
				Tube Size	Pipe Insulation Thickness
GRAY & BLACK	TRS-650-G-72EB	Gray	Black	5/8" (16mm)	1/2" (19mm)
				3/4" (19mm)	
				7/8" (22mm)	
	TRS-675-G-72CB	Gray	Black	5/8" (16mm)	3/4" (19mm)
				3/4" (19mm)	
GRAY & WHITE	TRS-650-G-72EW	Gray	White	5/8" (16mm)	1/2" (19mm)
				3/4" (19mm)	
				7/8" (22mm)	
	TRS-675-G-72CW	Gray	White	5/8" (16mm)	3/4" (19mm)
				3/4" (19mm)	
WHITE & BLACK	TRS-650-W-72EB	White	Black	5/8" (16mm)	1/2" (19mm)
				3/4" (19mm)	
				7/8" (22mm)	
	TRS-675-W-72CB	White	Black	5/8" (16mm)	3/4" (19mm)
				3/4" (19mm)	
WHITE & WHITE	TRS-650-W-72EW	White	White	5/8" (16mm)	1/2" (19mm)
				3/4" (19mm)	
				7/8" (22mm)	
	TRS-675-W-72CW	White	White	5/8" (16mm)	3/4" (19mm)
				3/4" (19mm)	

HOW TO ORDER

TRS

**TITAN
MODEL SERIES**
TRS, TGS, TSS

675

**TITAN ELASTOMERIC
SLEEVE DIAMETER**
650=1-3/4"
675=2-3/8"
610=3-1/4"*

**Only available for
TGS & TRS Series*

G-72 C B

COLOR
G=Gray
W=White

**E-FLEX
LENGTH**
72 = 6'
180 = 15'

DIAMETER
E= 1-3/4"
C= 2-3/8"
X= 3-1/4"

**E-FLEX
COLOR**
B=Black
W=White

TITAN TRS WITH 15' E-FLEX GUARD



	Part Number	Titan Outlet Color	E-Flex Guard Color	LINE SET ACCOMMODATED	
				Tube Size	Pipe Insulation Thickness
GRAY & BLACK	TRS-650-G-180EB	Gray	Black	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	1/2" (19mm)
				5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	3/4" (19mm)
				1-1/8" (29mm)	1/2" (19mm)
	TRS-675-G-180CB	Gray	Black	3/4" (19mm) 7/8" (22mm)	1" (25mm)
				1-1/8" (29mm)	3/4" (19mm)
GRAY & WHITE	TRS-650-G-180EW	Gray	White	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	1/2" (19mm)
				5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	3/4" (19mm)
				1-1/8" (29mm)	1/2" (19mm)
	TRS-675-G-180CW	Gray	White	3/4" (19mm) 7/8" (22mm)	1" (25mm)
				1-1/8" (29mm)	3/4" (19mm)
WHITE & BLACK	TRS-650-W-180EB	White	Black	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	1/2" (19mm)
				5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	3/4" (19mm)
				1-1/8" (29mm)	1/2" (19mm)
	TRS-675-W-180CB	White	Black	3/4" (19mm) 7/8" (22mm)	1" (25mm)
				1-1/8" (29mm)	3/4" (19mm)
WHITE & WHITE	TRS-650-W-180EW	White	White	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	1/2" (19mm)
				5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	3/4" (19mm)
				1-1/8" (29mm)	1/2" (19mm)
	TRS-675-W-180CW	White	White	3/4" (19mm) 7/8" (22mm)	1" (25mm)
				1-1/8" (29mm)	3/4" (19mm)

MODEL NUMBERS AND SIZING



TITAN TGS WITH 6' E-FLEX GUARD



	Part Number	Titan Outlet Color	E-Flex Guard Color	LINE SET ACCOMMODATED	
				Tube Size	Pipe Insulation Thickness
GRAY & BLACK	TGS-650-G-72EB	Gray	Black	5/8" (16mm)	1/2" (19mm)
				3/4" (19mm)	
				7/8" (22mm)	
	TGS-675-G-72CB	Gray	Black	5/8" (16mm)	3/4" (19mm)
				3/4" (19mm)	
GRAY & WHITE	TGS-650-G-72EW	Gray	White	5/8" (16mm)	1/2" (19mm)
				3/4" (19mm)	
				7/8" (22mm)	
	TGS-675-G-72CW	Gray	White	5/8" (16mm)	3/4" (19mm)
				3/4" (19mm)	
WHITE & BLACK	TGS-650-W-72EB	White	Black	5/8" (16mm)	1/2" (19mm)
				3/4" (19mm)	
				7/8" (22mm)	
	TGS-675-W-72CB	White	Black	5/8" (16mm)	3/4" (19mm)
				3/4" (19mm)	
WHITE & WHITE	TGS-650-W-72EW	White	White	5/8" (16mm)	1/2" (19mm)
				3/4" (19mm)	
				7/8" (22mm)	
	TGS-675-W-72CW	White	White	5/8" (16mm)	3/4" (19mm)
				3/4" (19mm)	

TITAN TGS WITH 15' E-FLEX GUARD



	Part Number	Titan Outlet Color	E-Flex Guard Color	LINE SET ACCOMMODATED	
				Tube Size	Pipe Insulation Thickness
GRAY & BLACK	TGS-650-G-180EB	Gray	Black	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	1/2" (19mm)
	TGS-675-G-180CB	Gray	Black	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	3/4" (19mm)
				1-1/8" (29mm)	1/2" (19mm)
	TGS-610-G-180XB	Gray	Black	3/4" (19mm) 7/8" (22mm)	1" (25mm)
				1-1/8" (29mm)	3/4" (19mm)
GRAY & WHITE	TGS-650-G-180EW	Gray	White	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	1/2" (19mm)
	TGS-675-G-180CW	Gray	White	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	3/4" (19mm)
				1-1/8" (29mm)	1/2" (19mm)
	TGS-610-G-180XW	Gray	White	3/4" (19mm) 7/8" (22mm)	1" (25mm)
				1-1/8" (29mm)	3/4" (19mm)
WHITE & BLACK	TGS-650-W-180EB	White	Black	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	1/2" (19mm)
	TGS-675-W-180CB	White	Black	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	3/4" (19mm)
				1-1/8" (29mm)	1/2" (19mm)
	TGS-610-W-180XB	White	Black	3/4" (19mm) 7/8" (22mm)	1" (25mm)
				1-1/8" (29mm)	3/4" (19mm)
WHITE & WHITE	TGS-650-W-180EW	White	White	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	1/2" (19mm)
	TGS-675-W-180CW	White	White	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	3/4" (19mm)
				1-1/8" (29mm)	1/2" (19mm)
	TGS-610-W-180XW	White	White	3/4" (19mm) 7/8" (22mm)	1" (25mm)
				1-1/8" (29mm)	3/4" (19mm)

MODEL NUMBERS AND SIZING



TITAN TSS WITH 6' E-FLEX GUARD

	Part Number	Titan Outlet Color	E-Flex Guard Color	LINE SET ACCOMMODATED	
				Tube Size	Pipe Insulation Thickness
	TSS-650-G-72EB	Gray	Black	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	1/2" (19mm)
	TSS-675-G-72CB	Gray	Black	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	3/4" (19mm)
				1-1/8" (29mm)	1/2" (19mm)
	TSS-650-G-72EW	Gray	White	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	1/2" (19mm)
	TSS-675-G-72CW	Gray	White	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	3/4" (19mm)
				1-1/8" (29mm)	1/2" (19mm)
	TSS-650-W-72EB	White	Black	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	1/2" (19mm)
	TSS-675-W-72CB	White	Black	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	3/4" (19mm)
				1-1/8" (29mm)	1/2" (19mm)
	TSS-650-W-72EW	White	White	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	1/2" (19mm)
	TSS-675-W-72CW	White	White	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	3/4" (19mm)
				1-1/8" (29mm)	1/2" (19mm)

TITAN TSS WITH 15' E-FLEX GUARD

	Part Number	Titan Outlet Color	E-Flex Guard Color	LINE SET ACCOMMODATED	
				Tube Size	Pipe Insulation Thickness
	TSS-650-G-180EB	Gray	Black	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	1/2" (19mm)
	TSS-675-G-180CB	Gray	Black	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	3/4" (19mm)
				1-1/8" (29mm)	1/2" (19mm)
	TSS-650-G-180EW	Gray	White	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	1/2" (19mm)
	TSS-675-G-180CW	Gray	White	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	3/4" (19mm)
				1-1/8" (29mm)	1/2" (19mm)
	TSS-650-W-180EB	White	Black	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	1/2" (19mm)
	TSS-675-W-180CB	White	Black	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	3/4" (19mm)
				1-1/8" (29mm)	1/2" (19mm)
	TSS-650-W-180EW	White	White	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	1/2" (19mm)
	TSS-675-W-180CW	White	White	5/8" (16mm) 3/4" (19mm) 7/8" (22mm)	3/4" (19mm)
				1-1/8" (29mm)	1/2" (19mm)

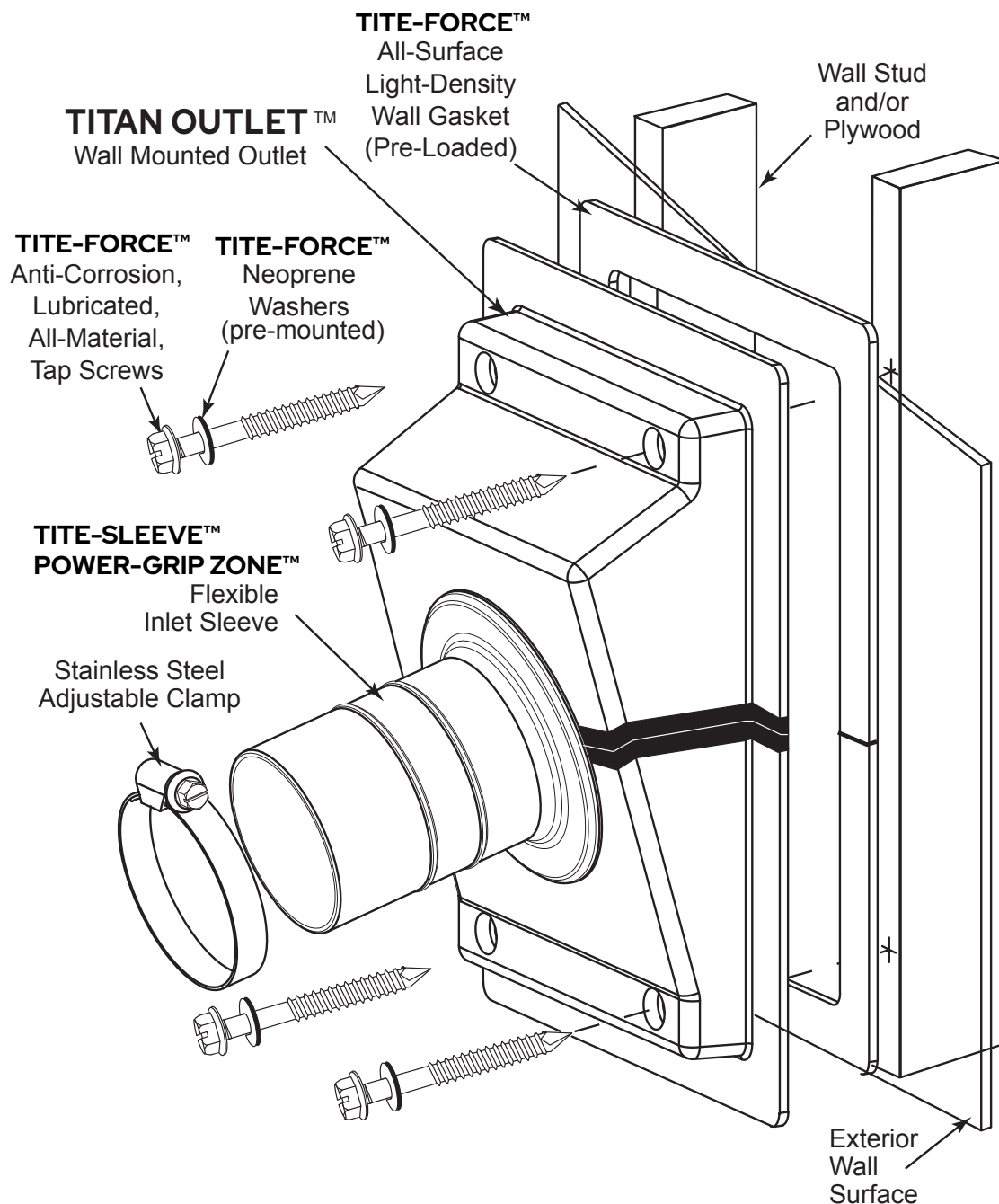
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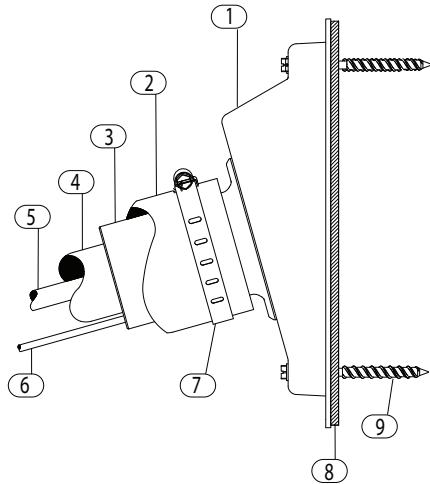


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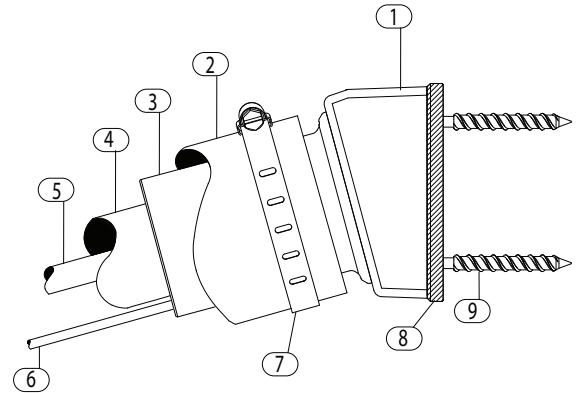
TRS PIPE PENETRATION DETAIL



TGS PIPE PENETRATION DETAIL

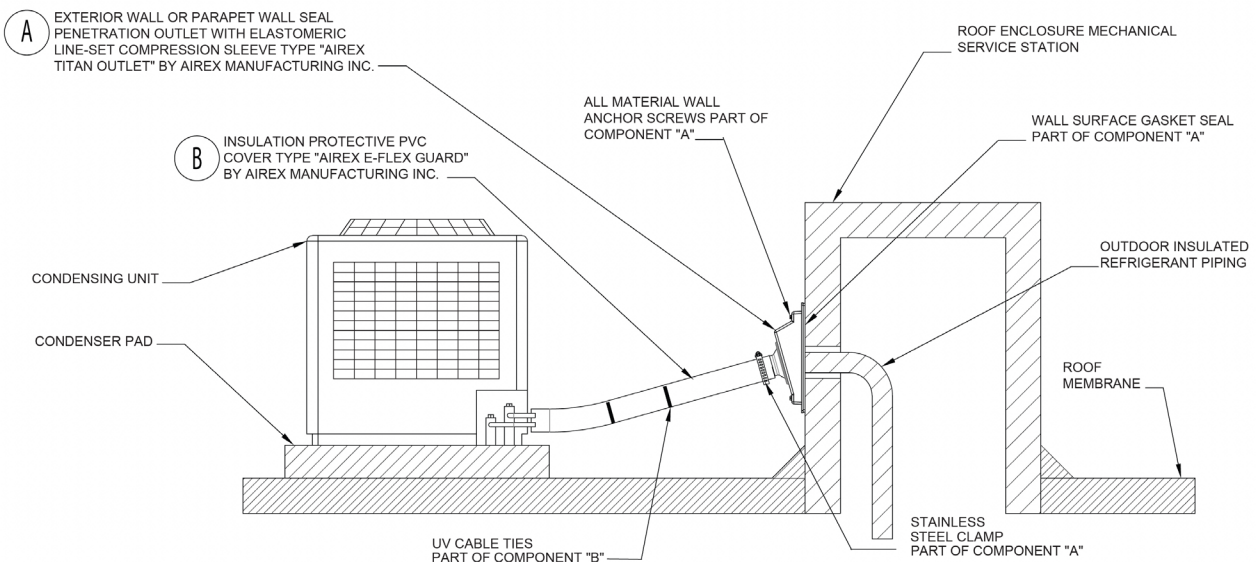


TSS PIPE PENETRATION DETAIL



1. Exterior wall or parapet wall penetration-sealing outlet with elastomeric sleeve
2. Insulation protective PVC cover
3. Elastomeric line-set compression & anti-vibration sleeve
4. Insulation for refrigeration suction line
5. Refrigeration suction line
6. Refrigeration liquid line copper
7. Mechanical connection secured with stainless steel clamp
8. Wall surface seal elastomeric gasket
9. Wall fasteners self-tapping 3/8" hex-head 1/4" diameter all material anchor screws with elastomeric washers

TGS ROOFTOP ENCLOSURE APPLICATION





www.AirexMfg.com

72170 Dunham Way, Suite D
Thousand Palms, CA 92276 USA

Phone: 760.343.2277

Email: customerservice@airexmfg.com

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