A Combined HVAC Pipe Penetration Wall Seal and Piping Insulation Protection System

Energy Efficient Products

AIREX PROSYSTEMKIT™

2IN System1

SUBMITTAL SHEET

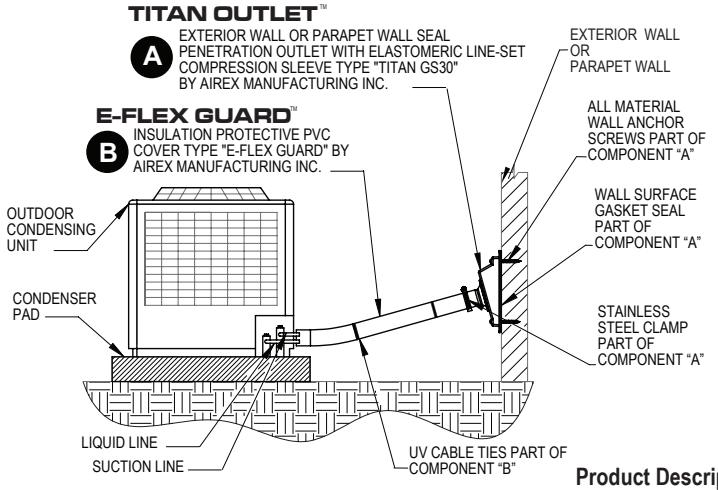
Project _____

Contractor _____

Date _____

Specification Reference _____

Comments _____



PRO-SYSTEM KIT MODEL NUMBERS

Airex Part Number		Model TGS: Stucco, Masonry Applications
TGS-650G-72E-B *TGS-650G-72E-W*	Black White	Fits: **1/2**" wall thickness pipe insulation with 5/8", 3/4", 7/8" tube
TGS-675G-72C-B *TGS-675G-72C-W*	Black White	Fits: **3/4**" wall thickness pipe insulation with 5/8", 3/4", 7/8" tube or 1/2" wall thickness pipe insulation with 1-1/8" tube.
TGS-610G-72X-B *TGS-610G-72X-W*	Black White	Fits: **1**" wall thickness pipe insulation with 3/4", 7/8" tube or 3/4" wall thickness pipe insulation with 1-1/8"

Airex Part Number		Model TSS: Siding, Compact Applications
TSS-650G-72E-B *TSS-650G-72E-W*	Black White	Fits: **1/2**" wall thickness pipe insulation with 5/8", 3/4", 7/8" tube
TSS-675G-72C-B *TSS-675G-72C-W*	Black White	Fits: **3/4**" wall thickness pipe insulation with 5/8", 3/4", 7/8" tube or 1/2" wall thickness pipe insulation with 1-1/8" tube.

TITAN OUTLET™ Color Options	*Gray - G*	*White - W*

When ordering, substitute Gray (G) for White (W)

E-FLEX GUARD™ Color Options	*Black - B*	*White - W*

Substitute Black (B) for White (W)

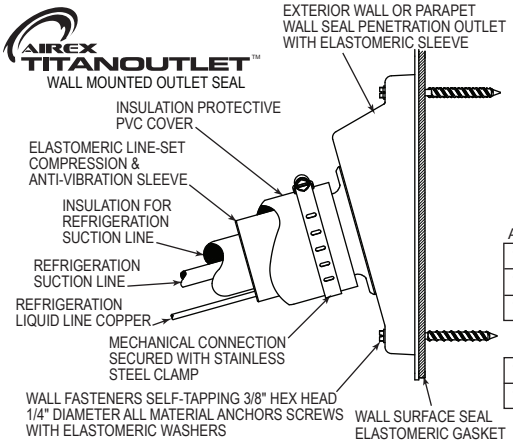
Product Description and Specification

AIREX PRO-SYSTEM KIT™ (a combined wall seal and insulation protection system) by Airex Manufacturing Inc., to be provided and installed for sealing HVAC refrigerant line "wall penetrations" and protection of refrigerant "line set piping insulation". The combined use of a compression gasket and wall seal system is required by energy codes **to prevent: wall air-leakage, moisture intrusion, weather intrusion, rodent intrusion, piping vibration control, physical wall or piping damage, especially when mechanically connecting to thermal insulated refrigerant piping. In addition, pipe insulation is also required to be protected from sun, wind, snow, ice, equipment maintenance and physical damage. AIREX PRO-SYSTEM KIT™ to be provided is to ensure healthy building indoor air quality, long-term building durability, sustainable building energy efficiency and optimal HVAC system performance.**

AIREX TITAN OUTLET™ - A wall outlet seal by Airex Manufacturing Inc., shall be provided and installed with its compression gasket mounting method and must be fastened to wall surface with supplied ICC-ES listed and approved non-corrosive screws with pre-loaded neoprene washers. Wall Outlet must also integrate an over-molded, flexible, elastomeric sleeve for sealing, supporting and isolating refrigerant pipes to also control vibration. The Wall Outlet shall also feature outdoor-rated durability and shall provide wall expansion and contraction protection features achieved by gaskets and seals as per energy code requirements. A stainless steel clamp must be utilized to create a "Mechanical Connection" between wall seal and pipe insulation protector as intended per energy codes to allow removable/reusable maintenance capabilities and designed to co-act with the AIREX E-FLEX GUARD™ Pipe Insulation Protection Cover. Wall Outlet seal and insulation protector must both be sustainably and securely installed, mechanically fastened together as one, due to piping vibration, and shall be assembled without the use of adhesives or adhesive tapes as per energy code requirements. **Wall Outlet shall be tested and must meet the following testing: ASTM E 331 (Water Penetration), ASTM E 283 (Air Leakage), and ASTM E 2178 (Air Permeance of Building Materials)**.

AIREX E-FLEX GUARD™ - An insulation protective cover by Airex Manufacturing Inc., shall be provided and installed to be flexible, U/V and weather resistant. The PVC plastic pipe insulation cover shall feature an integrated, outdoor-rated durability, industrial-grade, full-enclosure fastening system that is double secured by molecular bonding, allowing custom, cut-to-length installations. The cut-to-length installations shall comprise of a non-unraveling PVC cover material that does not compromise long-term-effectiveness or require specialized tools and cutting equipment. The engineered fastening system is to allow the cover to be removable and reusable for maintenance without the use of adhesives as an attachment in any way shape or form, including either in the protector's construction, installation, or attachment to pipe insulation, as this will negatively affect insulation permeance performance and promote insulation material degradation which causes added energy usage by equipment. WRAPPING TAPE OR ADHESIVE TAPE SHALL NOT BE PERMITTED AS PER ENERGY CODES. Insulation Protector shall be tested and meet the following testing: ASTM E 96 (Vapor Transmission of Materials), ASTM G 153 (Carbon Arc Light Exposure – Accelerated Weathering), ASTM D 412 (Tensile Strength after UV Exposure and Water Immersion) ASTM 570 (Water Absorption of Plastics) ASTM E 84/UL 723 (Surface Burning Characteristics of Building Materials), ASTM G 21 (Fungal Growth). UV/Protector Pipe Insulation Material shall Meet Class II vapor retarder per ASTM E 96 (vapor/moisture permeability test) "1 perm or less". THE USE OF U/V PAINT OR NON-PERMEABLE MATERIALS OR ADHESIVES ARE NOT PERMITTED FOR THIS APPLICATION. **AIREX E-FLEX GUARD™ combines U/V weather and physical protection with a Class II rated vapor retarder permeability performance material, as required per energy codes.**

AIREX TITANOUTLET™
WALL MOUNTED OUTLET SEAL



A

TITAN OUTLET™ Color Options

Gray - G	*White - W*
Substitute (G) with (W) for White	

TITAN OUTLET Dimensions

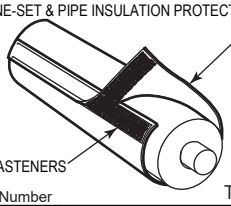
Airex Part Number	
TGS-550-G	Fits: 1/2" wall insulation
TGS-575-G	Fits: 3/4" wall insulation
TGS-510-G	Fits: 1" wall insulation

Model TGS: Stucco, Masonry Applications

TSS-550-G	Fits: 1/2" wall insulation
TSS-575-G	Fits: 3/4" wall insulation

Model TSS: Siding Applications

AIREX EFLEXGUARD™
HVAC LINE-SET & PIPE INSULATION PROTECTORS



B

E-FLEX GUARD™ Color Options

Black - B	*White - W*
Substitute (B) with (W) for White	

E-FLEX GUARD Dimensions

Two Lengths: 72" (6ft) and 75ft roll.

Airex Part Number	
72E-B (6 ft) **750E-B** (75 ft)	Fits: **1/2**" wall thickness pipe insulation with 5/8", 3/4", 7/8" tube.
72C-B (6 ft) **750C-B** (75 ft)	Fits: **3/4**" wall thickness pipe insulation with 5/8", 3/4", 7/8" tube or 1/2" wall thickness pipe insulation with 1-1/8" tube.
72X-B (6 ft) **750X-B** (75 ft)	Fits: **1**" wall thickness pipe insulation with 3/4", 7/8" tube or 3/4" wall thickness pipe insulation with 1-1/8" tube.

U.S. Patents #9,091,377 B2, #9,523,200 B2

AIREX Manufacturing Inc

www.airexmfg.com 72170 Dunham Way, Suite D, Thousand Palms, CA 92276 Phone: (760) 343-2277 Fax: (760) 343-5599

MADE IN USA

*Velcro is a registered trademark of Velcro USA Inc. Airex Manufacturing, Inc. Reserves the right to make changes or improvements at any time without notice.

Copyright © 2017 Airex Manufacturing Inc.