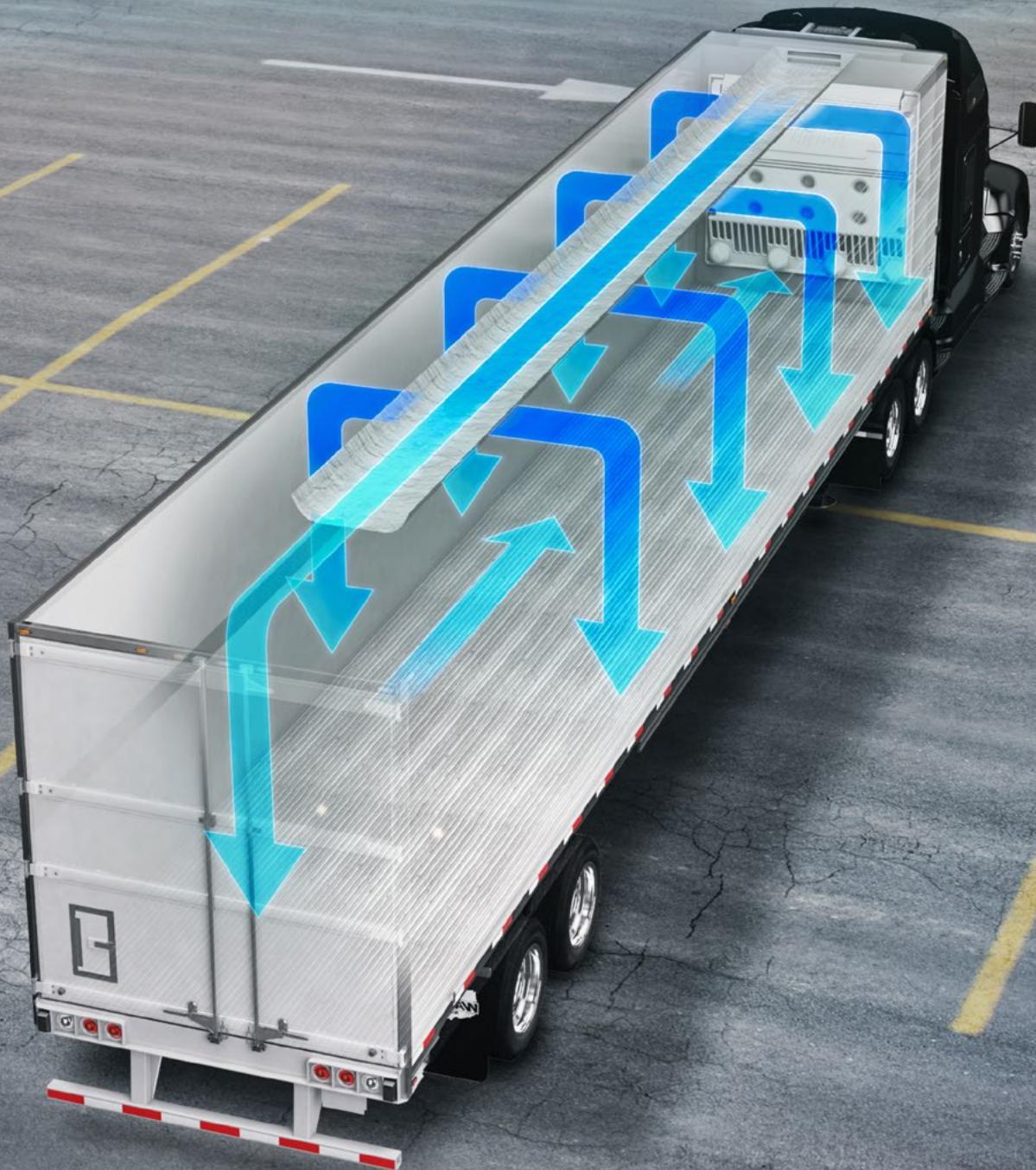


PrimAir™ Air Management Systems

A complete line of solutions for improving the temperature management of your cargo.



Maximize efficiency and temperature control with PrimAir™ Air Management Products

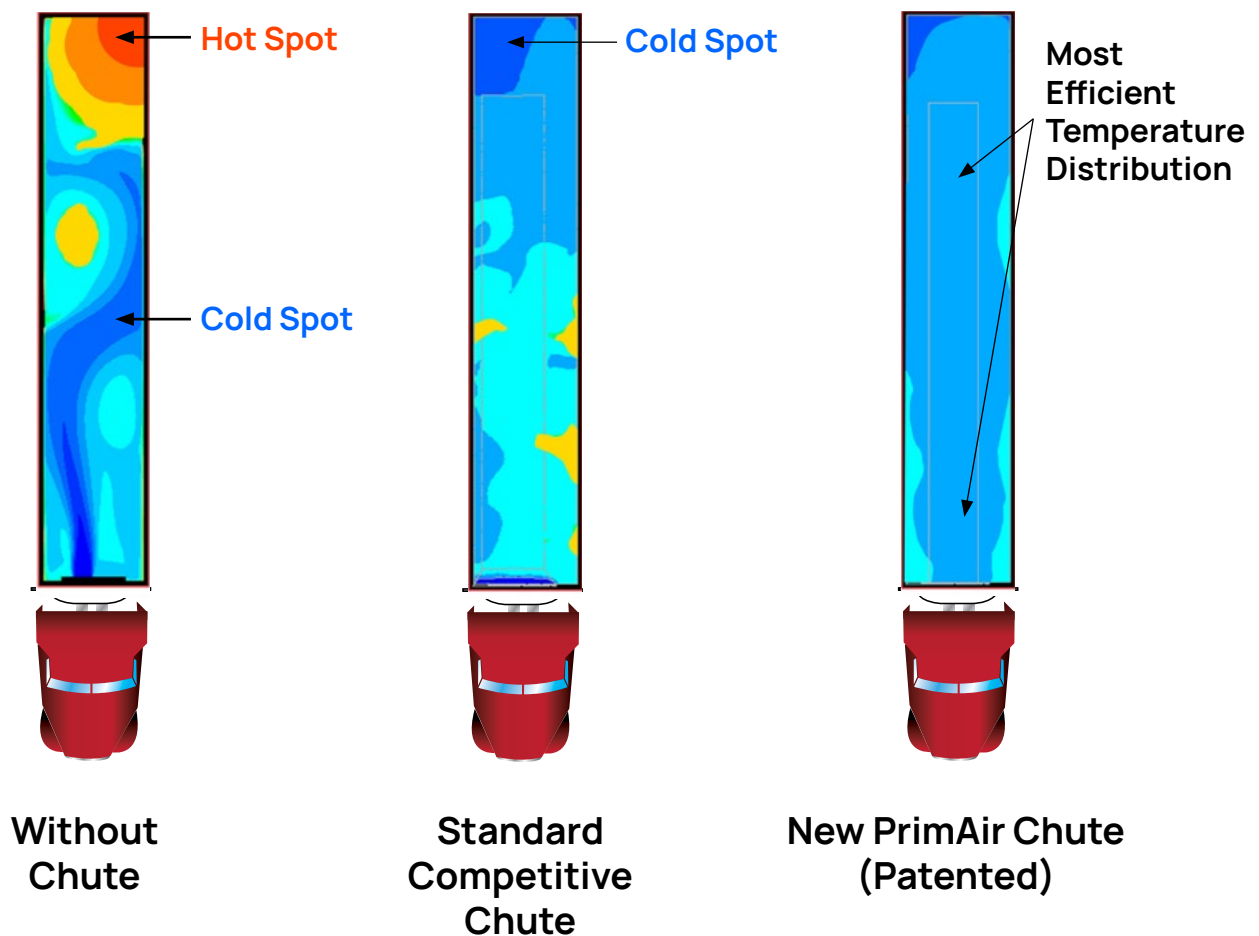
Proper airflow from the refrigeration unit in a trailer is critical to ensure even temperature distribution within the trailer. The use of chutes is critical to prevent top-freeze in produce hauling, and using a return air bulkhead helps reduce the risk of short-cycling.

The full line of PrimAir chutes, return air bulkheads, and insulated bulkheads can be used to ensure optimal airflow and even temperature distribution, reducing hot spots in a trailer that can negatively impact the quality of the product being transported.

Why use chutes?

- To reduce temperature variance within a trailer
- To prevent top freeze on produce
- To deliver airflow throughout the trailer and ensure a consistent temperature for protection of the load

Temperature Distribution



Results based on Thermo King CFD analysis on loaded trailer.

PrimAir™ Chute Systems

Designed for Thermo King Precedent® units

PrimAir Patented Chutes

- **Innovative Design:** Side and rear air flow design optimizes thermal efficiency, delivering fast pull-down speed and consistent temperature control.
- **Superior Durability:** Crafted from vinyl-coated fabric with industry-leading tear and tensile strength, providing best-in-class durability and extended lifespan.
- **Reduced Top Freeze Risk:** Innovative airflow direction prevents air from being directed down onto the produce, minimizing the risk of top freeze.
- **Cost-Effective Option:** An economically woven polyethylene version is also available, featuring a patented side-air discharge design.



PrimAir Mesh Chutes

- **Optimized Airflow:** Mesh fabric decreases pull-down time and enhances temperature control, outperforming standard designs that direct airflow primarily to the back of the trailer.
- **Cost-Saving Maintenance:** Save money by only replacing the damaged sections with the availability of replacement headers and body sections.
- **Improved Durability:** High-quality vinyl-coated fabric and robust mesh construction provides enhanced durability over competitive designs.

PrimAir Press-Up Chute

- **Space-Saving Design:** The Press-Up chute and adaptor (2013073 + 2013083) allow the chute to be easily pushed up to the trailer ceiling, creating more space for non-refrigerated loads.
- **Damage Prevention:** Prevents damage to the front of the chute during trailer loading.

PrimAir™ Chutes & Adapters Systems

Part Number	Description
2013064	43' vinyl air chute, hardware included
2013065	38' vinyl air chute, hardware included
2013075	43' vinyl air chute, full velcro, hardware not included
2013066	43' polyethylene air chute, hardware included
2013086	48' mesh air chute, hardware not included
2013087	43' mesh air chute, hardware not included

Part Number	Description
2013089	Mesh chute replacement header
2013090	48' mesh chute replacement body
2013091	43' mesh chute replacement body
2013073	43' press-up air chute, hardware included
2013077	Precedent adapter bracket
2013083	Press-up chute adapter bracket
2013036	Velcro strip (4')

PrimAir™ One-piece Return Air Bulkhead

No Trimming Required

Installation is easy compared to other bulkheads.

Rigid, High-Density Polyethylene Material

Resists damage and meets FDA guidelines for food handling.

Hinged Top

Folds down for easy access to the evaporator.

Support Pod Configuration

Provides mounting to front wall supports of any brand of trailer.

Narrower Design

Reduced weight for easier handling and installation.

Integral Pallet Bumpers

Helps guide forklift.

Optional Debris Screen

Reduces unit maintenance by keeping debris out of evaporator coil.

Large Air Intakes

Creates the lowest pressure drop of any one-piece bulkhead for greatest efficiency.

Designed to maximize refrigeration unit efficiency.

Designed for Precedent Units

The PrimAir return air bulkhead was designed to work perfectly with Thermo King's Precedent units. While the bulkhead is compatible with older Thermo King and Carrier® units, it has been optimized to deliver the best airflow possible from the Precedent unit.



Easier to Handle and Install

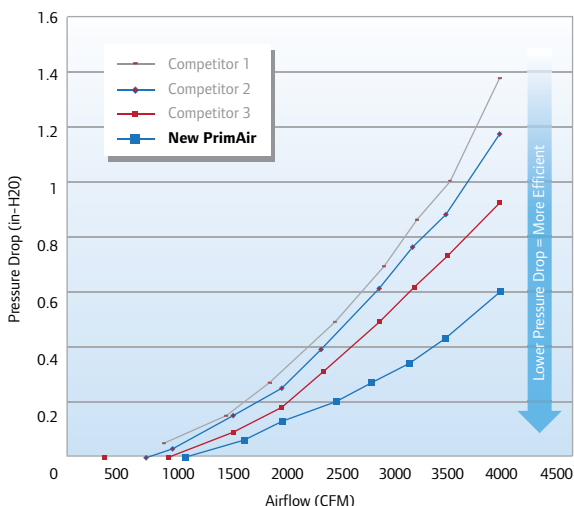
The bulkhead design is narrower than previous and competitive models, making it lightweight and easy to handle during installation and allowing for easier service access.

Maximizes Unit Efficiency

The PrimAir bulkhead also has larger air inlets which are shaped to reduce the amount of pressure drop seen across the bulkhead. This lower pressure drop means the refrigeration unit works more efficiently – reducing fuel consumption and wear on the fans.

One Piece Return Air Bulkheads

Pressure Drop Across the Bulkhead



Easy Service Access

With the PrimAir bulkhead, servicing the evaporator is a whole lot easier. By simply unlatching the top half of the bulkhead, it can be lowered to provide access to evaporator, a highly practical design that saves on maintenance time.

Minimize Maintenance

Adding a debris screen to the return air bulkhead is a smart way to improve the efficiency of your refrigeration unit and reduce maintenance. By trapping plastic wrap and other debris before it gets to the evaporator coil, the unit runs more efficiently and the debris can be cleaned out without accessing the evaporator.

Exceptionally Durable

The PrimAir bulkhead is constructed of a thick polyethylene material. It is strong, durable and resistant to damage from the cargo. The non-porous material is easily cleaned and specifically approved by the FDA for contact with food products.

Universal Design

The PrimAir bulkhead fits all Thermo King and Carrier wide post models. The support pod configuration provides contact points for attaching to the trailer front wall supports, regardless of the trailer manufacturer. The bulkhead does not need to be attached to the evaporator itself.

PrimAir Return Air Bulkheads

Part Number	Description
2013044	PrimAir™ Return Air Bulkhead, White
2013045	PrimAir™ Return Air Bulkhead, Black
2013048	PrimAir™ Return Air Bulkhead, White with Debris Screen
2013053	PrimAir™ Return Air Bulkhead, Black with Debris Screen
512615	PrimAir™ Return Air Bulkhead Hardware Kit

PrimAir™ Split Air Chute System



The PrimAir Split Air Chute System is designed to provide uniform temperature throughout the entire trailer. The unique diverter evenly distributes air to each side chute, which then guides the air to the rear of the trailer.

All components feature a USDA-approved food grade surface to help maintain a safe environment inside the trailer.

Features

- Chute design minimizes loading damage
- Optimal air flow
- More accurate temperature readings
- Special fasteners allow for easy access to unit
- Universal design fits most units
- USDA-approved surface
- 100% recyclable

PrimAir™ Split Air Chute System

48' Vinyl.....	TK-RMSD48
48' Mesh.....	TK-RMSD48MSH

PrimAir™ Two-Piece Return Air Bulkheads



Reduce short-cycling and maintain uniform product temperatures with this easy-to-use bulkhead. It takes less than one minute to remove the bulkhead to access the refrigeration unit. Replace pallet stops as needed without replacing entire bulkhead. No tools needed.

Features

- Patent-pending installation design
- Pre-installed filter screen prevents debris from entering unit
- Made from rotationally molded pure polyethylene for uniform thickness

System includes bulkhead, 2 pallet stops, mounting hardware, and filter screen.

PrimAir™ Two-Piece Return Air Bulkhead

Bulkhead.....	TK-VORTEX
Additional Pallet Stop.....	VRABHDWKTPS

PrimAir™ Insulated Bulkheads

The Best of Both Worlds



The PrimAir Insulated Bulkhead is designed and constructed for exceptional durability at an extremely light weight. Easy on loaders and easy on drivers.

Features

- 3" closed-cell core that prevents bacteria growth
- EPP foamcore is 100% recyclable
- Integrated flexible impact liner that reduces damage during loading and unloading
- Heat-welded seams that seal out moisture and bacteria
- Scuff guard minimizes damage to bulkhead
- Zero fasteners in the impact zone eliminate damage to scuff guard
- Limited warranty
- Weight: Less than 65 lbs. at a height of 102 in.

PrimAir™ Insulated Bulkhead

Bulkhead.....TK-PRIMAIR-IB

Options

Nylon Web Strap.....ESTRAPKIT1REF

Adjustable Vent.....VENT

Bulkhead Stenciling (10 letters)....BHSTN01

Center Partition Products Custom-Made for Your Needs

- Improved efficiency - more deliveries with fewer units
- Improved food safety - access only the compartment you need (food grade surfaces)
- Improved driver safety - unload two or three lanes from rear of trailer



Thermo King – by Trane Technologies (NYSE: TT), a global climate innovator – is a worldwide leader in sustainable transport temperature control solutions. Thermo King has been providing transport temperature control solutions for a variety of applications, including trailers, truck bodies, buses, air, shipboard containers and railway cars since 1938. For more information, visit thermoking.com or tranetechnologies.com.

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