Hillphoenix InviroPak™ Vertical Refrigeration System
Optimized indoor distributed solution designed for traditional supermarkets and food retail stores of all sizes.

System Design Architecture
- Indoor parallel compressor refrigeration system.
- Centralized systems for small formats or distributed design for larger formats.
- Available with 4 or 6 compressors.
- Flexible capacities for low, medium or split suction applications.

Key Feature & Benefits
- Small footprint allows unit to be placed anywhere inside the store, freeing up valuable floor space.
- Parallel system includes multiple staged scroll compressors with digital compressor per suction group for capacity control and improved energy efficiency.
- Removable/hinged panels allow full access to components for installation/service.

<table>
<thead>
<tr>
<th>Standard Configuration</th>
<th>Options</th>
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</thead>
<tbody>
<tr>
<td>Galvanized Steel Cabinet</td>
<td>460V Main Power</td>
</tr>
<tr>
<td>208-230V Main Power</td>
<td>Low pressure control per compressor</td>
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<tr>
<td>Scroll Compressors (Only)</td>
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</tr>
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<td>Replaceable core filter/drier and sight glass</td>
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<td>Through the door disconnect</td>
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<td>IEC Contactors</td>
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<td>Discharge oil separator (centrifugal) with integral oil reservoir</td>
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<td>Refrigerant options: R407A, R448/9A</td>
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Vertical InviroPak Capacity Range

4 Compressor
W: 30 1/2 x H: 80 1/8

6 Compressor
W: 43 1/2 x H 80 1/8
Opportunity

Vertical InviroPak™ big benefits for stores of all sizes

One Cool Solution

The Problem: Food retailers of all sizes are facing two major issues today:
- How to reduce costs
- How to improve margins

Research shows traditional supermarkets, mass merchandisers and warehouse membership retailers are reducing their footprints to reduce their bottom line costs. At the same time, small format stores are getting larger to answer customer demand. These current trends have important implications:
- In traditional food retail stores, refrigeration and lighting make up more than 75% of electricity consumption — while offering significant opportunities for energy savings and cost reduction.
- Stores require retailers to use every square foot of space for sales related activities. Moving the refrigeration systems outside of the building frees up some of this space.

The Solution: Increased flexibility and design of InviroPak

The Vertical InviroPak is the ideal answer for food retailers looking to reduce costs and improve margins. Here are six reasons why.

Easy to Install
- InviroPak is shipped from our factory and ready for installation in an attractively-designed cabinet.
- When used as a distributed system by larger format stores, InviroPak can be located closer to the loads to reduce refrigerant and piping costs.
- For smaller footprint supermarkets, InviroPak can serve as a central system, allowing the retailer to handle all of the store refrigeration requirements with one system. This reduces the cost and complexity of installing multiple single condensing units.

Simple to Service
- Smart design provides ample room for quickly and easily servicing and maintaining internal components.
- Hinged doors on compressor and electrical sections coupled with removable doors on all sides allow quick and easy access.
- Through-the-door disconnect allows for easy service.
- Fork lift pockets allow for ease of transport.

Reduces Refrigerant Costs
- As a distributed system, InviroPak can reduce refrigerant by being located closer to the loads. This helps retailers reduce refrigerant costs and the amount of HFC refrigerant in the system on a daily basis.
- Optimized, compact design uses fewer brazed joints — so there are fewer locations for costly refrigerant leaks.

Space-Saving Design
- InviroPak’s small footprint allows it to be located indoors, taking up minimal space within the store.
- Eliminates need for a separate mechanical room inside the store.
- Frees up valuable interior floor space for more product and sales.
Easy on the eye

- Compact design coupled with insulated panels make the unit easy on the ears as well as the eyes.

Long-lasting performance

- Each unit receives extensive quality checks before shipping.
- Proven, durable design and construction means years of reliable performance.

Vertical InviroPak Capacity Range

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Single Temp | Dual Temp

Current
Features and Benefits

Product Snapshots

InviroPak™
Traditional Supermarket Features and Benefits

Compact solution for easy installation
- The Vertical InviroPak™ is a compact parallel rack solution with integrated controls.
- For some smaller footprint supermarkets, the Vertical InviroPak can be used as a central system, allowing the retailer to handle all of the store refrigeration requirements with one system.
- InviroPak reduces refrigerant and piping costs because a distributed system has the flexibility of being located closer to the loads.
- InviroPak is shipped from our factory ready for installation.

Ease of service/accessibility
- The compressor section is isolated and can be easily accessed while the unit is operational.
- Smart design allows room enough to quickly and easily service/maintenance internal components.
- Hinged doors on compressor and electrical sections coupled with removable panels on all sides allow quick and easy access.
- Through-the-door disconnect allows for easy service.
- Fork lift pockets allow for ease of transport.

Reduced refrigerant charge
- As a distributed system, InviroPak can reduce refrigerant by being located closer to the loads; enabling the retailer to reduce refrigerant costs and the amount of HFC refrigerant in the system.
- The optimized, compact design also uses less brazed joints which in turn reduces refrigerant leaks.

Compact design
- The Vertical InviroPak has a small footprint and can be located indoors eliminating the need for a mechanical room that allows critical floor space to be dedicated to sales.

Aesthetically-pleasing design
- The small footprint allows the unit to be located anywhere within a store, taking up minimal space.
- The attractive enclosure and insulated panels make it easy on the ears as well as the eyes.

Standard vs. Options Configuration

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<th>Standard Configuration</th>
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*Not available with split condenser due to single coil design–available with heated and insulated receiver for low ambient applications

^ Uses fixed speed scroll in lieu of digital scroll on low temp due to compressor availability
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448–Capacity BTUH at 95F Ambient by SST

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**Low Temp Units**

**Dual Temp Units**

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### 407A–Capacity BTUH at 95F Ambient by SST

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### 407A–Capacity BTUH at 95F Ambient by SST

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## 407A–Capacity BTUH at 100F Ambient by SST

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## 407A–Capacity BTUH at 105F Ambient by SST

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## 448A–Capacity BTUH at 100F Ambient by SST

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<th>Medium Temp Units</th>
<th>VIP-M0349-L0000</th>
<th>VIP-M0403-L0000</th>
<th>VIP-M0442-L0000</th>
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<th>-10</th>
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## 448A–Capacity BTUH at 105F Ambient by SST

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<th>VIP-M0403-L0000</th>
<th>VIP-M0442-L0000</th>
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<th>-10</th>
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<th>-25</th>
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<tbody>
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<tr>
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<td>124,200</td>
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<td>86,600</td>
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<td>124,200</td>
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Vertical InviroPak™ Specifications
Complete Submittal Drawings available

4 Compressor

6 Compressor

Website:
https://www.hillphoenix.com/drawings/?v=list&drawings-industry%5B%5D=food-retail&drawings-prod-serv%5B%5D=refrigeration-systems
Vertical InviroPak™ Clearance Recommendations

TOP VIEW

36” SERVICE CLEARANCE

SERVICE CLEARANCE

SERVICE CLEARANCE

36” SERVICE CLEARANCE

36” NEC CLEARANCE

RECOMMENDED FOR AIR EXHAUST

40” NEC CLEARANCE

AIR EXHAUST CLEARANCE

SERVICE CLEARANCE

SERVICE CLEARANCE

SERVICE CLEARANCE

40” SERVICE CLEARANCE

RIGHT VIEW

36” SERVICE CLEARANCE
Vertical InviroPak™
Model Number Explanation

VIP = InviroPak Platform  
MXXXX = Medium Temp Load in KBTUs  
LXXXX = Low Temp Load in KTBUs

Options Key

<table>
<thead>
<tr>
<th>Split Condenser</th>
<th>Hot Gas Defrost</th>
<th>Crank Case Heater</th>
<th>Hail Guard</th>
<th>Heat Reclaim</th>
<th>LP Switch/Comp</th>
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<tbody>
<tr>
<td>S</td>
<td>G</td>
<td>K</td>
<td>H</td>
<td>R</td>
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Example: VIP-M0079-L0012-GK is an InviroPak Platform Model with Hot GAs Defrost option and Crank Case Heater option

45 Models in Vertical Inviropak Portfolio

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<tr>
<th>Low Temp Single Suction</th>
<th>Med Temp Single Suction</th>
<th>Medium and Low Temp Dual Suction</th>
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Conyers, GA USA
844.591.5937
hillphoenix.com
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Vertical InviroPak™ Capacity Range
DFR Systems Product Line Categories and Capacity Ranges

- **CO₂**
  - **Indoor**
    - Distributed: LT, MT
    - Advansor: LT
    - Flex: LT, MT
    - Centralized: LT, MT
      - Booster: LT, MT
  - **Outdoor**
    - Distributed: LT, MT
      - Advansor: LT
      - Flex: LT, MT
      - Centralized: LT, MT
        - Booster: LT, MT

- **HFC**
  - **Indoor**
    - Distributed: LT, MT
      - Vertical Pak: LT, MT
      - Horizontal Pak: LT, MT
      - Traditional Rack: LT, MT
    - Centralized: LT, MT
      - Traditional Rack: LT, MT
      - Mechanical Center: LT, MT

Capacity Ranges:
- 200,000
- 400,000
- 600,000
- 800,000
- 1,000,000
- 1,200,000
- 1,400,000
- 1,600,000
- 1,800,000
- 2,000,000