



Sometimes the  
smartest choice  
is the easiest.



Smart  
Defrost  
Kit



InterLINK™  
Commercial Refrigeration Parts

Right source. Right parts. Right now.

# A Quick Look at the SDK

## System Requirements

Recommended for nearly any size walk-in electric defrost commercial refrigeration system (certified for all HRP brands) with three or more scheduled defrosts per day

## How it Works

Once installed, the SDK learns the system, enabling it to predict frost accumulation on the evaporator coil and determine whether or not a defrost is necessary

## Reduced Operational Costs

Customers can see up to a 40 percent reduction in number of defrosts – fewer defrosts result in less energy usage and lower energy bills

## Quick Paybacks

As quick as 6 months (up to an average of about 2 years)

## Enhanced Product Integrity

Because the system isn't defrosting unnecessarily, box temperatures are more stable, ultimately improving the integrity of stored products

## Easy to Install

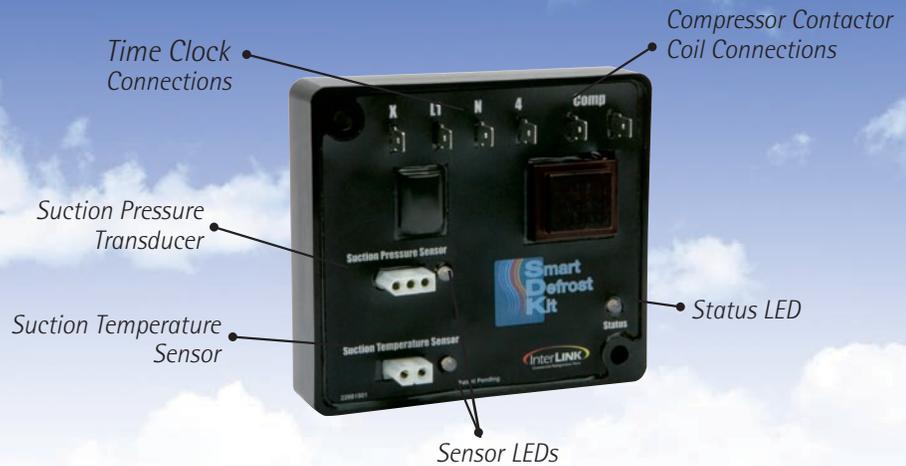
Installs in about 30 minutes with no system evacuation required

## Large Aftermarket Opportunity

About 660,000 1/2 - 6 HP electric defrost walk-in freezers

# The Smart Defrost Kit

## COMPONENTS OF THE MODULE



## WHAT'S IN THE KIT



To purchase the Smart Defrost Kit, talk to your local InterLink Wholesaler

*Typical systems are timed to defrost at regular intervals, but running like clockwork isn't always the most efficient or safe way to operate. For restaurants, convenience stores, grocery and other applications where food safety is critical, the SDK not only works to protect perishable inventory, but also enables refrigeration systems to operate more efficiently, saving your customers money.*

## Now There's a Smarter Way to Defrost.

InterLink introduces the Smart Defrost Kit™ (SDK) – a revolutionary way to save your customers a lot of money (and put some in your pocket too). A typical refrigeration system defrosts an average of four times a day. An installed SDK enables the system to defrost only when needed, resulting in increased energy efficiency, more consistent box temperatures and enhanced product integrity.



### How it Works

The SDK learns the refrigeration system, evaluates how much frost has accumulated on the evaporator and bypasses unnecessary defrost cycles. The number of defrosts is reduced by 30-40% on typical electric defrost refrigeration systems, saving energy... and money!

#### FEATURES

- Standalone control module
- Rugged, hermetically-sealed casing
- Successfully completed extensive testing under extreme conditions
- Patent-pending algorithm
- 10 years of smart defrost experience built-in
- All parts packaged in a kit, ready for installation

#### BENEFITS

- Easy installation – installs in six steps and takes about 30 minutes with no system evacuation required
- Compatibility - works on nearly any size walk-in electric defrost refrigeration system
- Helps keep box temperatures more stable, ultimately improving product integrity
- Reduces energy consumption resulting in reduced operational costs
- Quick paybacks – as quick as 6 months (average of 2 years)

### Where it Works

The SDK is compatible with nearly any size walk-in freezer application, such as the ones found in:

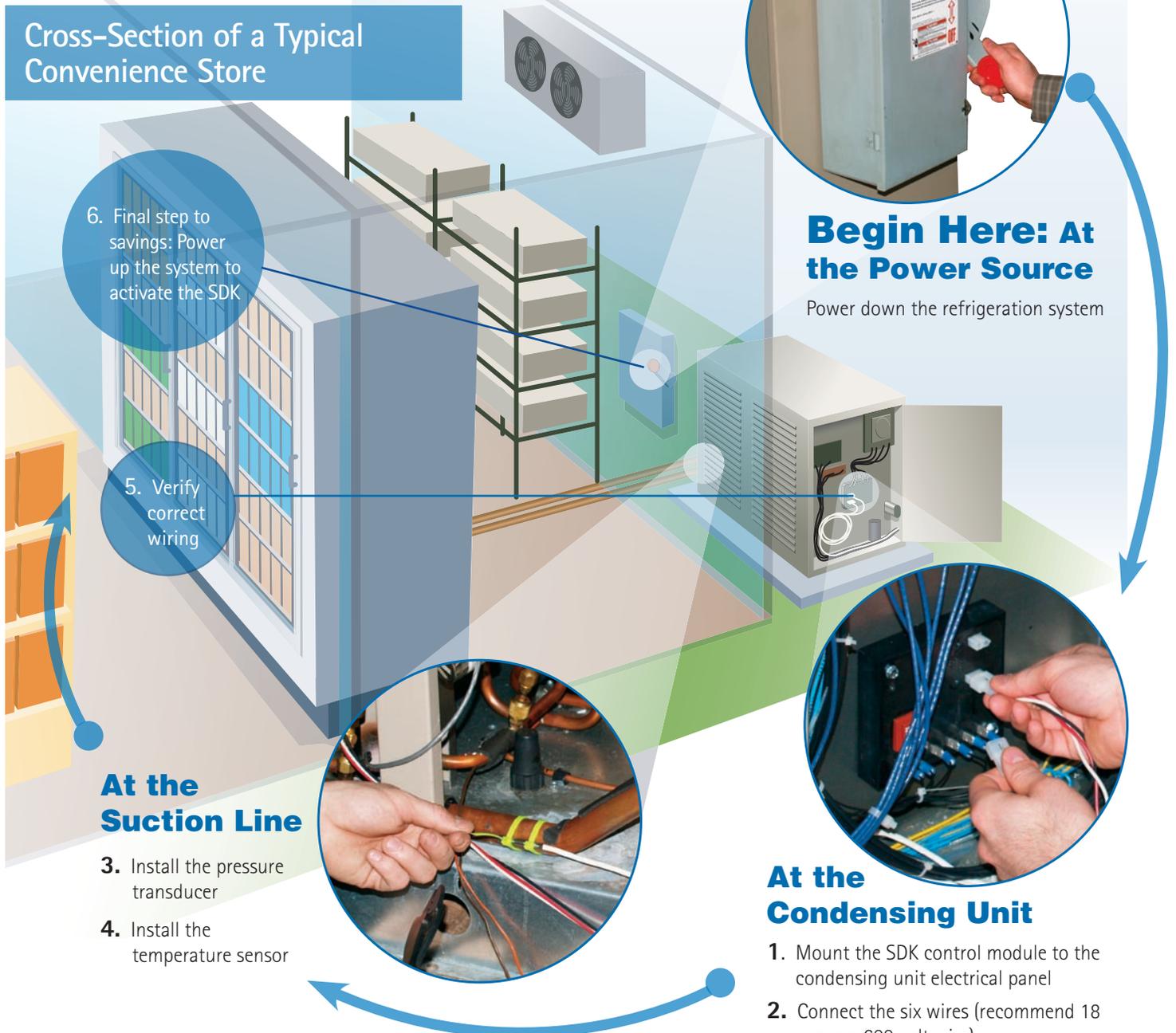
- Quick- and Full-Serve Restaurants
- Convenience Stores
- Schools
- Small Grocery Stores
- Cold Storage and Refrigerated Warehouses
- Institutional Applications



# Installation in Six Easy Steps

...and 30 minutes or less.

## Cross-Section of a Typical Convenience Store



6. Final step to savings: Power up the system to activate the SDK

5. Verify correct wiring

### At the Suction Line

3. Install the pressure transducer
4. Install the temperature sensor

### Begin Here: At the Power Source

Power down the refrigeration system

### At the Condensing Unit

1. Mount the SDK control module to the condensing unit electrical panel
2. Connect the six wires (recommend 18 gauge, 600 volt wire)

## Quick Paybacks

The SDK pays for itself in a matter of months! The table below shows estimated payback periods for typical small, medium and large commercial refrigeration systems. All paybacks are estimated based on the applications specified and an energy price of \$.08/kWh.

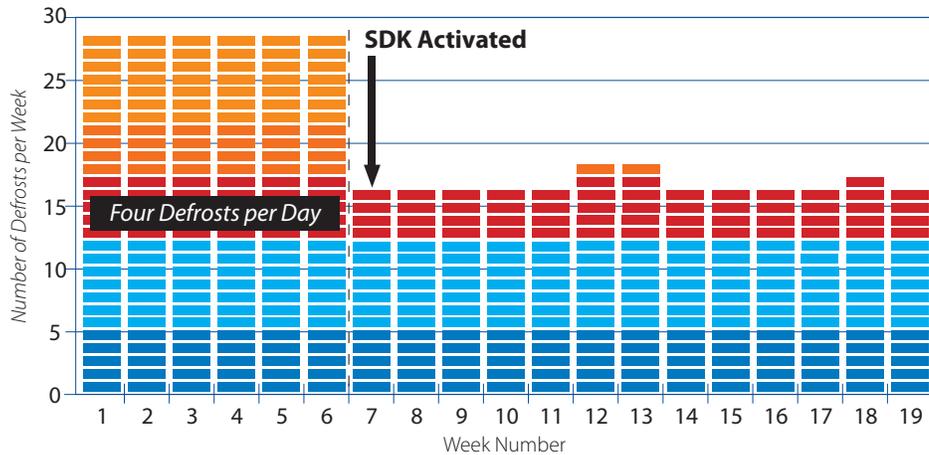
System Size	Typical Application	Equipment Size	kWh Savings/Yr*	Operational Cost Savings/Yr*	Avg. Payback Period*
Small	Small Walk-In Freezer: Fast Food/ Convenience Store	1/2-6HP	1,250 - 4,000	\$100 - \$300	2.2 Years
Medium	Med to Large Walk-In Freezer: Restaurant/ Foodservice/Grocery Store	6 - 15HP	4,000 - 8,000	\$350 - \$700	1 Year
Large	Large Warehouse Freezer: Warehouse/Cold Storage Facility	15 - 40HP	8,000 - 35,000	\$700 - \$2,800	< 6 Months

\* Estimation only, results may vary.

# Powerful Results

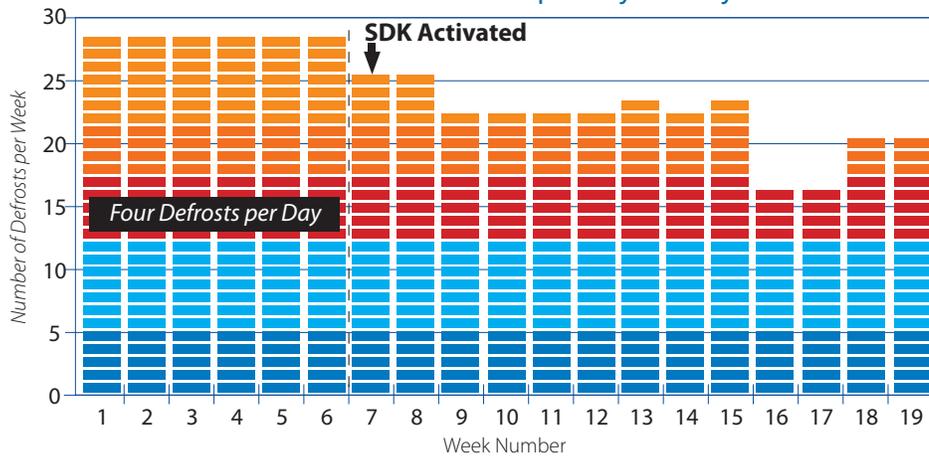
Seeing is believing. Shown below are the SDK field test results for a national foodservice restaurant chain, a national specialty grocery chain and a national convenience store chain. Each location started with four defrosts scheduled per day, and saw at least a 35% skip rate after the SDK installation.

Field Test Results: National Foodservice Restaurant Chain



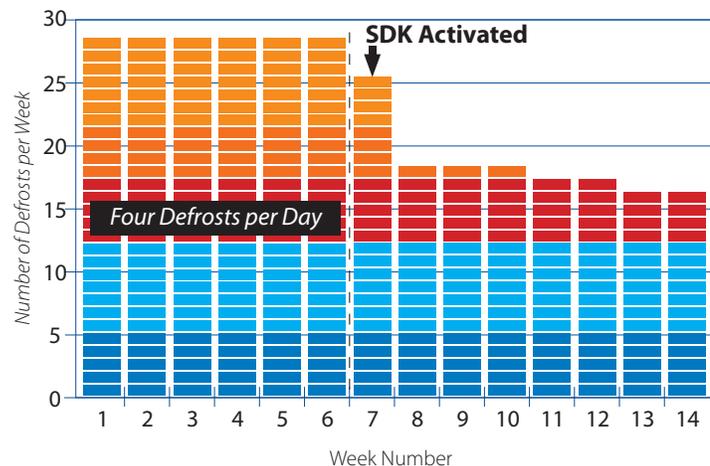
Restaurant Facts
Equipment Used: Low profile evaporator, 3HP condensing unit
Skip Rate: 40%
Yearly Projected Savings
Power Savings: 1,823 kWh/yr
Operational Cost Savings: <b>\$146/yr</b>

Field Test Results: National Specialty Grocery Chain



Grocery Store Facts
Equipment Used: Warehouse evaporator, 15HP condensing unit
Skip Rate: 35%
Yearly Projected Savings
Power Savings: 9,500 kWh/yr
Operational Cost Savings: <b>\$607/yr</b>

Field Test Results: National Convenience Store Chain



Convenience Store Facts
Equipment Used: Low profile evaporator, 6HP condensing unit
Skip Rate: 40%
Yearly Projected Savings
Power Savings: 2,247 kWh/yr
Operational Cost Savings: <b>\$183/yr</b>



The SDK is part of the Energy Solutions® portfolio of energy efficient products. Log on to [www.heatcrafttrpd.com/energysolutions](http://www.heatcrafttrpd.com/energysolutions) for more information on other energy efficient products from Heatcraft Refrigeration brands.

InterLink is your link to a complete line of dependable and certified commercial refrigeration parts, accessories and innovative electronic controls for all Heatcraft Refrigeration Products (HRP) brands - including Bohn, Larkin, Climate Control and Chandler. At InterLink, we provide our wholesalers with a comprehensive selection of product solutions and innovative technologies for the installed customer base. And every product is built to ensure the same high performance standards with which all HRP brands are built - backed by a dedicated team to serve every customer need, delivering at the best lead times in the industry.



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