

Refrigerant Conversions



 **SOURCE**
Refrigeration & HVAC, Inc.

Now is the Time to Partner with Source on Ref

The multi-year phase out of HCFC refrigerants began in 1989 with the global adoption of the Montreal Protocol. Since that time there have been several proposed changes in policy that dramatically impact your business. In January 2012, the EPA proposed the latest change with the objective of reducing HCFC usage even more aggressively between 2012 and 2014.

Refrigerant suppliers reacted to this latest proposed rule by dramatically increasing the prices for R-22, which is used in the majority of the grocery store refrigeration & HVAC systems in the United States. This cost jump, combined with the fact that R-22 will be completely phased out by 2020, means now is the time to partner with Source for your refrigerant conversions.

First Step: Protect Your Current Assets

Source's Refrigerant Conversion Program provides a turnkey solution for your conversion requirements.

However, before initiating your conversion program, the first thing to do is protect your current R-22 inventory. This can be accomplished by:

- Checking and validating your leak-detection systems to make sure they are operating properly
 - Increasing the frequency of your leak checking so any problems can be addressed immediately
 - If you do not currently have a leak-detection system, consider having one installed without delay
- Source is ready to assist you with these first steps.

Planning Your Conversions

Developing a comprehensive conversion plan as soon as possible is imperative because of rising R-22 costs, pending supply challenges, and the fact that R-22 will be in limited supply after 2015.

Source offers a comprehensive program designed to help grocery retailers and other businesses with mission-critical refrigeration & HVAC systems convert their R-22 to acceptable HFC alternatives. The program includes four main steps, each tailored to your specific situation.

Process Step	Key Components	Customer Benefit / Value
Conversion Program Planning & Organization	<ul style="list-style-type: none"> • Planning, Budgeting • Communication • Prioritizing • Refrigerant banking goals, options 	<ul style="list-style-type: none"> • An overall conversion plan that considers <u>risk mitigation</u>, <u>scope</u>, <u>timing</u>, <u>cost</u>, <u>gas banking options</u>; <u>great tool for budgeting</u>. • A well thought-out plan
Survey & Engineering	<ul style="list-style-type: none"> • Detailed engineering review to define scope of work for each conversion • Survey of each location for enabling accurate engineering • Recommendations for modifications/improvements for each store 	<ul style="list-style-type: none"> • <u>Assurance</u> that each conversion is being reviewed by professional engineers to <u>ensure the best refrigerant choice</u> considering specific equipment and corporate GWP objectives • Opportunities for <u>optimizing system performance</u>, post-conversions
Refrigerant Change-Out	<ul style="list-style-type: none"> • Execution of change-outs per the detailed conversion plan and engineering review; coordinated with local store operations to minimize store disruptions 	<ul style="list-style-type: none"> • Change-outs <u>executed by the largest expert service provider</u> in the industry with the size, expertise and resources to work around your schedule to <u>minimize store disruptions</u> and <u>ensure the highest-quality conversions</u>; <u>consistency</u>
Energy Optimization	<ul style="list-style-type: none"> • Optimization of the entire system, including the EMS, post-conversion 	<ul style="list-style-type: none"> • Ensures that each newly converted <u>system is optimized for energy usage and performance</u>

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Why Select Source as Your Refrigerant Conversion Partner

There are several reasons Source is the best partner for your refrigerant conversions:

- We are a one-stop source for all of your refrigeration and HVAC needs. Our expertise covers all aspects of refrigeration and HVAC, including engineering/design, installation, service and system optimization, ensuring that all of the critical steps required for a successful, cost-efficient conversion are considered.
- As part of the initial planning & organization stage, we work closely with our customers to understand the goals and objectives of their conversion. For example, some customers are driven by using refrigerants with the lowest possible Global Warming Potential (GWP), while others may want to maximize system efficiency. Our technical experts will develop a customized plan to meet each customer's requirements and objectives and help you understand the trade-offs of converting to various acceptable HFCs.

- Our field service technicians are trained to the highest caliber throughout the country, so you can rest assured knowing that your conversion is being executed by a team of highly-trained refrigeration professionals.
- Our nationwide coverage means we can manage and execute multi-site conversion projects consistently and in a timely manner, and we are committed to working with your schedule to reduce disruption of your business.

Call us today to discuss your specific refrigerant conversion needs



Headquartered in Anaheim, Calif., Source Refrigeration & HVAC is the market leader in the design, installation, start-up, maintenance and optimization of mission-critical refrigeration and HVAC systems. With service locations throughout the United States, we have over 1,000 employees serving the daily needs of more than 2,500 customers. We are proud to enjoy relationships with many of today's leading grocery retailers and many other industry leading companies. Our significant investment in employee training and development ensures that our employees have deep industry knowledge and strong technical skills. It is this highly skilled team that enables us to provide the right technical resources to solve our customers' specific challenges – the first time. Our goal is to lower the Total Cost of Ownership of our customers' mission-critical refrigeration and HVAC systems.



SOURCE
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SUMMARY OF SERVICES:

ENGINEERING

- Refrigeration, HVAC and Dehumidification System Design
- Objective Design Review
- EMS design
- Refrigerant Conversion Program
- Energy Modeling
- Store Surveys (pre-remodel or expansion)
- Energy Compliance
- Energy Design Review

INSTALLATION

- New Construction of Refrigeration, HVAC, Dehumidification and EMS Systems
- Remodels of Refrigeration, HVAC, Dehumidification and EMS Systems
- Right Start™ start-up Program
- Refrigerant Conversion Program

SERVICE

- Service Maintenance Agreements
- Time & Material repairs and maintenance
- Preventative Maintenance Programs
- Leak Detection
- Asset/Equipment Tagging

ENERGY OPTIMIZATION

- Retro-commissioning – optimization of existing EMS
- Retrofits – installation and optimization of EMS
- Variable Frequency Drive (VFD) Installations
- Problem / High-cost System Solutions
- New store commissioning

TRAINING

- Custom technical training programs available