

Product Overview

What is SF?

The SF: Start to Finish product line offers quality, reliable, cost-effective products for a wide range of HVAC applications. Supported by Ingersoll Rand, we are dedicated to providing our customers with high-quality, value-priced solutions and pride ourselves on delivering dependable solutions for your project needs.

SF Chemicals

The SF Chemical offering is a complete line of core HVAC chemicals to meet the need of each and every job. The SF line may be new however the quality in the engineered product is manufacturer by an industry leader, tried and tested for many years in the HVAC market. The well rounded mix of products allows a contractor to pick up most any product required for a job.

The SF Chemical line compasses a variety of products:

- Coil Cleaners
- Indoor Air Quality
- Lubricants and Oils
- Tapes and Sealants
- Special Use Items
- Water Treatments

The SF Coil Cleaner Advantage

Work quickly and effectively.

Properly formulated and labeled.

Competitively priced & in stock!



Coil Cleaners

Smart Choice™ Coil Cleaner Selection & Use Chart

Dirty coils are like dirty lungs. It's hard to breathe with dirty lungs. All your body parts are stressed when you can't breathe. Clean coils relieve the stress so the entire system can breathe easy. Clean your coils the right way with SF Coil Cleaners. Relieve the stress, reduce power consumption, and please your customers and your business with cleaner air and a fatter wallet.

	Product	Features	Cleaning Action	Personal Safety and Protection
Outdoor Condenser Coils	 Black-Max™ Condenser Cleaner & Brightener CND051901 - 1 gal.	<ul style="list-style-type: none"> • Ultra premium grade alkaline • Removes the most stubborn contamination • Supreme brightening among alkaline coil cleaners • Dilution Rates from 3 to 20 parts water • Best choice for severely neglected condenser coils • Biodegradable 	Superior surfactants and powerful expanding foam action pushes out baked on dirt, grease and grime from deep inside the coil for easy rinsing away with water	No fluorine based ingredients make these cleaners safer than HF Acid or ABF Acid-based coil cleaners. Use protective gloves & splash goggles Avoid breathing vapors Avoid all skin & eye contact Rinse from skin & eyes without delay
	 Nu-Clear™ Condenser Cleaner & Brightener CND026101 - 1 gal. CND026105 - 5 gal. CND026130 30 gal. CND026155 55 gal.	<ul style="list-style-type: none"> • Premium grade alkaline • Highly concentrated • A proven solution • Biodegradable 		
	 Non-Acid Coil Cleaner Base™ 100% Active ingredients CND024632 1 QUART	<ul style="list-style-type: none"> • 100% active ingredients, super concentrate • Make your own coil cleaner with this Base™ • Dilutes with up to 80 parts water • Saves space on your truck or warehouse • Alkaline based cleanser • Biodegradable 	Grease fighting formulations attack grease and convert it to soap for easy rinsing Always rinse thoroughly with water	
	 Non-Acid, Foaming Air-Cooled Condenser Cleaner CND077301 1 gal. CND077305 5 gal. CND077355 55 gal.	<ul style="list-style-type: none"> • Concentrated foaming alkaline condenser coil cleaner • A dependable solution for outdoor coils • Biodegradable 		
Evaporator & Condenser Coils	 Enviro-Coil™ Concentrate Dual Purpose Coil Cleaner CEV025501 1 gal. CEV025530 30 gal. CEV025555 55 gal.	<ul style="list-style-type: none"> • Dual purpose detergent for both evaporator and condenser coils • Excellent for environmentally sensitive jobs • Best choice for regular, preventive maintenance programs • Biodegradable and metal safe 	Will not etch aluminum	
Hard-to-Rinse Evaporator Indoor Coils	 Self-Rinsing Evaporator Coil Cleaner EVP027101 1 gal. EVP027105 5 gal. EVP027155 55 gal.	<ul style="list-style-type: none"> • Concentrated evaporator coil cleaner • A classic workhorse detergent for indoor coils • Biodegradable and metal safe 	Attacks only dirt buildup Penetrate and loosen contamination to easily wash away tobacco tars, grease, grime, mold, mildew and other energy stealing contaminants	May irritate eyes & skin Wear splash goggles Avoid excessive skin contact
	 Pre-Clean Concentrate EVP027401 1 gal.	<ul style="list-style-type: none"> • Designed for use prior to Stay-Kleen Cooling Coil Anti-Foulant, CTG027332, CTG027301 • Detergent • Biodegradable 	Rinse condensers thoroughly	
	 Self-Rinsing Base™ 100% Active ingredients EVP024732 1 qt.	<ul style="list-style-type: none"> • 100% active ingredients, super concentrate detergent • Make your own coil cleaner with this Base™ • 1 quart makes over 6 gallons of cleaning solution • Saves space on your truck or warehouse • Biodegradable 	No rinsing required for evaporators	

Condenser Cleaners

Non-Acid Type

What they do & how they work



1

Penetrate and loosen surface contamination in order to come in contact with the underlying aluminum coil surface.

2

React with the aluminum, etching it slightly, and release hydrogen gas which combines with the detergents in the product to form a thick foam.

3

The foam *expands* and *pushes* dirt & contamination outward for easy rinsing with water.

A system cannot breathe without clean coils.

Coil Cleaners

Evaporator Coil Cleaners



SELF-RINSING EVAPORATOR CLEANER BASE

EVP024732 1 qt.

- 100% Active Ingredients
- Super concentrate base formulation contains all ingredients to make a cleaner suitable for your application — just add water
- 1 quart makes over 6 gallons of cleaner
- No foaming action attacks only dirt buildup
- Rinsing is not required normal condensation will carry away dirt and contamination



SELF RINSING EVAPORATOR COIL CLEANER

EVP027101 1 gal.

EVP027105 5 gal.

EVP027155 55 gal.

- Odorless, non-toxic, deodorizes and easy to use
- Doesn't etch or react with aluminum to form hydrogen gas
- Emulsifies contamination; penetrates, loosens, and mixes with dirt to make it water soluble
- No rinsing required, dilute with up to 6 parts water
- Cleans and treats air conditioning systems for maximum efficiency
- Retards future dirt accumulation and eliminates slime in condensate areas



ENVIRO-COIL™ CONCENTRATE

CEV025501 1 gal.

CEV025530 30 gal.

CEV025555 55 gal.

- Eco friendly; cleans evaporator and condenser coils
- Best choice for regular maintenance or PM schedules
- Dilute with 8 parts water for evaporator coils, 4 parts water for condenser coils
- Does NOT etch or react with aluminum to form Hydrogen gas
- Attacks only the dirt buildup—not the equipment



PRE-CLEAN HVAC SYSTEM CLEANER

EVP027401 1 GALLON

- HVAC System Cleaner for use prior to anti-foulant treatment
- Contains no harsh acids or free alkali
- Effectively removes organic and inorganic contamination from coils
- Leaves no residue
- No foaming action

Coil Cleaners

Alkaline, Reactive, Expanding Foam Action Coil Cleaners



NON-ACID FOAMING AIR COOLED CONDENSER CLEANER

CND077301 1 gal.

CND077305 5 gal.

CND077355 55 gal.

- Foams out stubborn deposits from coils
- Ideal for cleaning grease contaminated refrigeration coils & condensers
- Dilute with 2 to 20 parts water



NU-CLEAR, NON-ACID COIL CLEANER AND BRIGHTENER

CND026101 1 gal.

CND026105 5 gal.

CND026130 30 gal.

CND026155 55 gal.

- Expanding foam action, excellent for greasy contamination
- Heavy-duty detergents loosen baked-on contamination
- Brightens better than normal alkaline cleaners
- Dilute appropriately with 3 to 40 parts water



NON-ACID COIL CLEANER BASE

CND024632 1 qt.

- 100% Active Ingredients
- Contains all ingredients to make a cleaner suitable for your application
- Versatile BASE Formulation saves money
- Excellent for greasy contamination
- Heavy-duty detergents loosen baked-on contamination
- Dilute appropriately with 6 to 80 parts water

Coil Cleaners

Alkaline, Reactive, Expanding Foam Action Coil Cleaners



BLACK-MAX

CND051901 1 gal.

Non Acid Condenser Coil Cleaner & Brightener

- Premium grade alkaline – expanding foam action
- Brightens better than normal alkaline cleaners
- Dilution rates from 3 to 40 parts water
- Must be thoroughly rinsed with water
- Contains hazardous component Potassium Hydroxide
- Good ventilation, protective gloves, and eye protection required



NON-ACID AEROSOL FOAM CONDENSER COIL CLEANER

CND0542AE 8 OZ. AEROSOL

- Aerosol condenser coil cleaner
- Effective, powerful condenser coil cleaner
- Easy to use aerosol spray can
- No mixing, no sprayer, no mess
- Thorough rinsing with fresh water is required

Evaporator Cleaner Aerosol



NO-RINSE AEROSOL EVAPORATOR CLEANER

EVP0543AE 18 OZ. AEROSOL

- Aerosol evaporator coil cleaner, no-rinse required
- Effective, safe evaporator coil cleaner
- Easy to use aerosol spray can
- No mixing, no sprayer, no mess

Lubricants & Oils



ALKYLBENZENE REFRIGERATION OIL Z-150 200 SUS

ABO015001 1 gal.

- ISO Viscosity Grade 46/200 SUS @ 100 F.
- Copeland Compressor Approved
- Excellent compatibility
- Low floc point; reliable lubrication
- High solubility, low foaming
- Excellent thermal stability



ALKYLBENZENE REFRIGERATION OIL Z-200 200 SUS

ABO200T01 1 gal.

- ISO Viscosity Grade 46/200 SUS @ 100 F.
- Copeland Compressor Approved
- Excellent compatibility
- Low floc point
- Reliable lubrication
- High solubility, low foaming
- Excellent thermal stability



ALKYLBENZENE REFRIGERATION OIL Z-300 300 SUS

ABO030001 1 gal.

- Recommended for use with refrigerants R-401A/R-401B and R-402-A/R402-B as well as other HCFC and CFC refrigerants in field service and retrofit applications
- ISO Viscosity Grade 68/300 SUS @ 100 F

Lubricants & Oils



M3 REFRIGERATION OIL (150 SUS)

MIN015001 1 gal.

MIN015005 5 gal.

- Highest quality refrigeration oils available anywhere
- Improved by purification during packaging
- OEM Approved, moisture and wax free; compatible with CFC and HCFC refrigerants
- Viscosity 150 SUS (ISO VG 32) Replaces 3GS
- Refined from select naphthenic base oils
- Highest quality available and long-term, trouble-free service
- Excellent low temperature properties



M4 REFRIGERATION OIL (300 SUS)

MIN03001 1 gal.

MIN03005 5 gal.

- Highest quality refrigeration oils available anywhere
- Improved by purification during packaging
- OEM Approved, moisture and wax free; compatible with CFC and HCFC refrigerants
- Replace 3GS and 4GS; Viscosity 300 SUS (ISO VG 68) Replaces 4GS
- Refined from select naphthenic base oils
- Highest quality available and long-term, trouble-free service
- Excellent low temperature properties

 PRODUCT PART #	 BLACK-MAX CND051901 - 1 GAL.	 NU-CLEAR CND026101 - 1 GAL. CND026105 - 5 GAL. CND026130 - 30 GAL. CND026155 - 55 GAL.	 NON-ACID COIL CLEANER BASE 100% ACTIVE INGREDIENTS CND024632 - 1 QT.	 NON-ACID, FOAMING AIR-COOLED CONDENSER CLEANER CND077301-1 GAL CND077305 - 5 GAL. CND077355 - 55 GAL.	 COIL CLEANER CONDENSER AEROSOL CND0542AE
EQUIPMENT					
CONDENSER COILS					
MINI SPLIT CONDENSER COILS					
EVAP. COILS					
MICROCHANNEL COILS					
ELECTRONIC AIR FILTERS					
FAN BLADES, PERMANENT FILTERS, HVAC PARTS					
CLEANING					
GREASE DIRT AND OIL					
COOKING GREASE					
LINT, DUST, DIRT AND GRIME					
TOBACCO TARS					
OXIDE DEPOSITES					
ORGANICS: COTTONWOOD, BUGS AND OTHER POLLUTANTS					
SF ADVANTAGES					
MAKES UP TO:	20 GALLONS CLEANER	21 GALLONS CLEANER	6+ GALLONS CLEANER	20 GALLONS CLEANER	READY TO USE
FOAMING ACTION					
BRIGHTENING					
DEGREASING					
BIODEGRADABLE					
NO RINSE NEEDED†					
METAL ROOFS *					
RUBBER ROOFS *					

All roofing materials—best practice:

1. Inspect roof for damage prior to service work and report conditions to the property owner. Pay particular attention to worn out seams, poor flashing, and poor sealants. Also pay attention to low spots that may cause puddling.
Test the cleaner in an inconspicuous area of the roof to ensure the roofing materials and finish are compatible with the chosen cleaner.
2. Do not allow coil cleaner or any other service chemicals to puddle and sit on roofing materials. Wipe up or rinse off.
3. Dilute cleaner according to instructions. It is better to apply coil

cleaner a couple of times at proper dilution than mixing it stronger for quicker action.

4. When cleaning roof-top coils, allow a water hose to run constantly, around the unit, so that the cleaner is rinsed as soon as it makes contact with the roof.
5. Rinse cleaning solution all the way off of the roof.

***Metal roofs:**

Any reactive-foam coil cleaner that provides expanding foam action in contact with an aluminum coil will also aggressively clean the

						
ENVIRO-COIL CONCENTRATE DUAL PURPOSE COIL CLEANER	SELF-RINSING EVAPORATOR COIL CLEANER	PRE-CLEAN CONCENTRATE	SELF-RINSING BASE EVAPORATOR COIL CLEANER	COIL CLEANER EVAPORATORS	PARTS CLEANER	
- 18 OZ. - 30 OZ.	CEV025501 - 1 GAL. CEV025530 - 30 GAL. CEV025555 - 55 GAL.	EVP027101 - 1 GAL. EVP027105 - 5 GAL. EVP027155 - 55 GAL.	EVPO27401 - 1 GAL.	100% ACTIVE INGREDIENTS EVPO24732 - 1 QT.	EVP0543A - 18 OZ. AEROSOL	EAC025101 - 1 GAL.

WHAT IT CLEANS:

ANSWERS:

ADVANTAGE:

NO USE	5 TO 9 GALLONS CLEANER	6 GALLONS CLEANER	5 GALLONS CLEANER	6+ GALLONS CLEANER	READY TO USE	2+ GALLONS CLEANER

surrounding and downstream roof and potentially react with the metal roofing or its surface coating. This may discolor, streak, degrade, or strip the finish. Reactive-foam cleaners should not be used on metal roofs. Non-reactive cleaners are safe to use around metal roofing and most finishes.

***Rubber roofs—The rubber itself isn't the problem, it's the coating on the rubber:**

The rubber roofing membrane itself is very resistant to most water-based coil cleaners. However, the coatings applied to rubber roofs are often reflective paints that may contain aluminum chips or other sensitive

materials. Reactive-foam cleaners will also aggressively clean the surrounding and downstream roof and potentially react with the finish coating of a rubber roof. This may discolor, streak, degrade, or strip the finish. Reactive-foam cleaners are safe to use around rubber membrane materials, but should not be used where sensitive finishes are present. Non-reactive cleaners are safe to use around rubber membrane materials and most roofing finishes.

Always test coil cleaners in an inconspicuous area of the roof to ensure the roofing materials and finish are compatible with the chosen cleaner.

† No rinsing required when condensation is present.”

Lubricants & Oils



POLYOLESTER 32 REFRIGERATION LUBE

POE003201 1 gal.

- ISO Viscosity Grade 32/32 cSt @ 40 degrees Celsius
- Formulated specifically for use with non-ozone depleting, HFC refrigerants.



POLYOLESTER 68 REFRIGERATION LUBE

POE006801 1 gal.

- ISO Viscosity Grade 68/68 cSt @ 40 degrees Celsius
- Formulated specifically for use with non-ozone depleting, HFC refrigerants



POLYOLESTER 220 REFRIGERATION LUBE

POE022001 1 gal.

- ISO Viscosity Grade 220/220 cSt @ 40 degrees Celsius
- Formulated specifically for use with non-ozone depleting, HFC refrigerants



VACUUM PUMP OIL

VPO000101 1 gal.

VPO000132 1 quart.

- Lubricates and cleans vacuum pumps
- Highest quality refrigeration oils available anywhere
- Improved by purification during packaging
- Highly demulsifiable, separates from water in 25 min at 180°F
- Powerful sludge dispersant loosens dirt, sludge and cleans pump
- Combination of additives makes for true anti-wear lubricant and lengthens pump life
- Anti-rust ingredient protects internal parts

Specialty Items

Cleaners, Leak Detectors, De-greasers



E-SOLV SOLVENT SOLUTION CLEANER AND DEGREASER

SLV051201 1 gal.

- Controlled evaporation
- Cleans electric motors, machined parts, coils, switches, breakers, and other components
- Safer alternative to chlorinated solvents



PARTS CLEANER HEAVY DUTY CONCENTRATE

EAC025101 1 gal.

- Electronic cell & general purpose cleaner
- Biodegradable Formula, non-flammable
- Water soluble solvent, prevents rust
- For use on electronic air filters, permanent filters, registers, appliance surfaces, fans & blowers or anywhere dirt and filth are a problem



FIN PROTECTANT AIR COOLED CONDENSER COIL COATING

CTG0275AE 16 oz. aerosol

- Condenser coil corrosion protection
- Protects aluminum-finned condensers from corrosion caused by salt air, industrial plants, exhaust from airports & freeways
- Acrylic polymer sealant protects aluminum, copper, brass, bronze, chrome, galvanized metal, titanium, and stainless steel
- Economical and easily field applied
- Not affected by thermal expansion and contraction



FIN-SAVER NO CORROSION FIN PROTECTANT SPRAY

CTG027501 1 gal.

- Condenser coil corrosion protection
- Air cooled condenser coil coating
- Does not affect heat transfer
- Prevents rust and corrosion
- Acrylic polymer coating protects aluminum, copper, brass, bronze, chrome, galvanized metal, titanium, and salt air areas

Specialty Items

Cleaners, Leak Detectors, De-greasers



LEK024508 8 oz.

LEAK DETECTOR

- High viscosity leak detector
- Dauber-type
- Fluorescent
- Clings to all surfaces
- Freeze-proof to 0°F



SPRAY TYPE LEAK REACTANT

LEK027701 1 gal.

LEK027732 1 qt. sprayer

- Leak reactor
- Pinpoint tiny leaks in pressurized gas systems
- Tacky liquids cling to vertical surfaces and the underside of tubing
- Telltale bubbles indicate leaks
- Fluorescent dauber-type
- Blue spray-type



RUST CORROSION INHIBITOR

WTR000905 5 gal.

WTR000901 1 gal.

- Biodegradable & environmentally safe
- Prevents corrosion in recirculating water systems that are shut down for winter storage
- Combination of surfactants and patented chemical that disperses readily in water



NICKEL SAFE ICE MACHINE CLEANER

IMC025301 1 gal.

IMC012916 16 oz.

IMC025308 8 oz.

- Special Formulation, food grade ingredients
- Removes scale & slime, restores efficiency
- Safe on nickel or tin-plated evaporators
- Meets Manitowoc Spec. GES-6 for nickel-safe ice machine cleaner
- U.S.D.A. Accepted; biodegradable

Water Treatment Products



SCALE-SHREDDER

SCL024901 1 gal.

SCL024905 5 gal.

- Open recirculating low-foam scale remover
- Safely removes scale from cooling towers, pipes, and condensers without system shutdown
- Highly concentrated, use only 3 gallons per 100 gallons of circulating water
- Reduces head pressure in a matter of hours, increases system capacity
- Ideal for use in systems that cannot be shutdown for descaling
- Contains no dangerous hydrochloric acids or sulfuric acids
- Reduces power consumption and it is labor saving



COOL TREAT

WTR000105 5 gal.

WTR000155 55 gal.

- Water scale and corrosion control
- Color coded scale and corrosion control for cooling towers
- Multi-functional water treatment containing no chromates or heavy metal
- Environmentally safe
- Inhibits microbial growth to maintain water quality
- Works with color coded visual test strips
- Helps keep surfaces free of insoluble materials



DESCALER WITH PH INDICATOR

SCL025001 1 gal.

SCL025005 5 gal.

- Hydrochloric acid base with pH indicator for descaling water cooled condensers
- Premium low foaming
- Phosphoric acid descaler for cooling towers

Indoor Air Quality



STAY KLEEN COOLING ANTI-FOULANT

CTG027332 1 quart. sprayer

CTG027301 1 gal.

- Evaporator anti-foulant
- Protects coils from airborne particulates and other contaminants (up to 2-3 yrs.)
- Improves indoor air quality and eliminates foul odors at their source
- Contains preservatives that protect from deterioration caused by mold and bacterial growth



ODOR NEUTRALIZER SPRAY

DEONS1616 16 oz.

DEONS0101 1 gal. refill

- Neutralizes malodors caused by mold, smoke, pets, etc.
- Use anywhere foul odors are present
- Long lasting for 3 to 5 months



DRAIN TABS CONDENSATE DRAIN PAN TABS

DTR031320 200 count

- Keeps pan & drain lines clear
- Control overflows, odor and water damage
- Easy to use completely soluble.
- Will not form any deposits in pan or drain.
- Safe non-toxic, non-corrosive

Tapes and Sealants



CORK INSULATION TAPE

CRK000130

- 1/8 X 2 INCHES, 30 FOOT
- Hot or cold applications
- Adheres firmly to all non-porous surfaces, molds easily around valves and fittings
- Stop condensation and drip
- Will not shrink or dry out



FOAM INSULATION TAPE

FOM000130

- 1/8 X 2 INCHES, 30 FOOT
- Hot or cold applications
- Adheres firmly to all non-porous surfaces, molds easily around valves and fittings
- Stop condensation and drip
- Will not shrink or dry out



SEALING GUM SLUG

GUM002402

- 24 X 2 LB SLUG
- Block-off gum sealing compound
- Block form
- Molds into any shape



SEALING GUM CORDS

GUM003825

- 3/8 X 12 INCHES, 25 FOOT
- Bead-up gum sealing compound
- Easily presses into place

Chemical Safety & Tips

Acid Coil Cleaners

Not sold in the SF brand

(acid information provided as reference only)

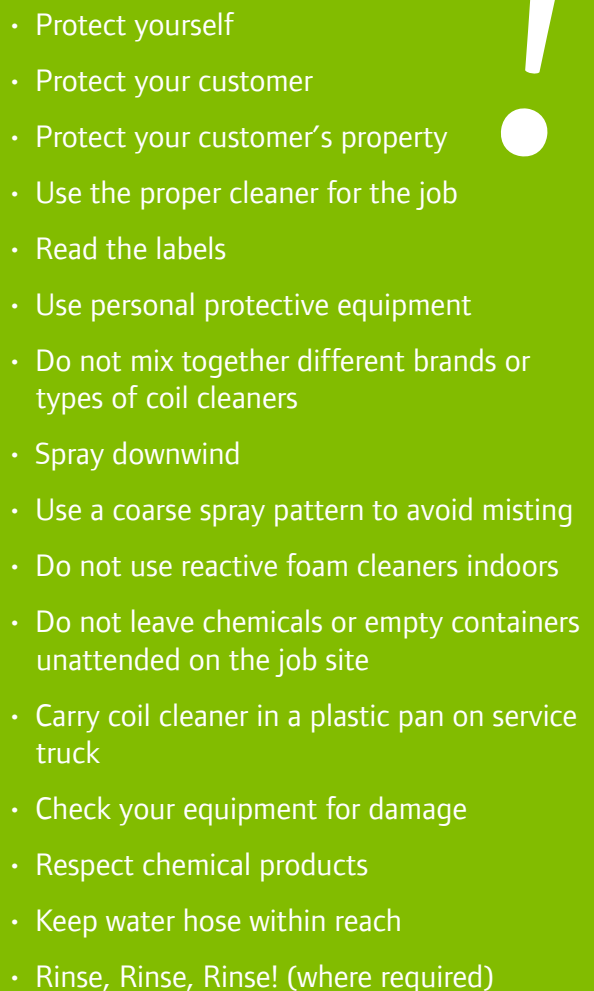
- Etch aluminum generating hydrogen gas. The gas bubbles work with the surfactants and detergents to loosen contamination and push it outward from the coil.
- Usually contain Hydrofluoric and Phosphoric Acids
- Normally colored red or pink; beware of exceptions
- Low pH
- Will cause skin and eye burns

Detergent Based Chemicals

- Designed to emulsify contamination making it water soluble
- Normally colored green, beware of exceptions
- Medium to high pH
- May cause skin and eye irritation

Alkaline Coil Cleaners

- Also etch aluminum generating hydrogen gas. The gas bubbles work with the surfactants and detergents to loosen contamination and push it outward from the coil.
- Usually contain Potassium or Sodium Hydroxide
- Normally colored yellow, beware of exceptions
- High pH
- Will cause skin and eye burns

- 
- Protect yourself
 - Protect your customer
 - Protect your customer's property
 - Use the proper cleaner for the job
 - Read the labels
 - Use personal protective equipment
 - Do not mix together different brands or types of coil cleaners
 - Spray downwind
 - Use a coarse spray pattern to avoid misting
 - Do not use reactive foam cleaners indoors
 - Do not leave chemicals or empty containers unattended on the job site
 - Carry coil cleaner in a plastic pan on service truck
 - Check your equipment for damage
 - Respect chemical products
 - Keep water hose within reach
 - Rinse, Rinse, Rinse! (where required)

Chemical & Coil Cleaner Distinctions

Acid-Type Coil Cleaner

*Not sold in the SF brand
(acid information provided as reference only)*

Primary hazardous ingredients—hydrofluoric acid (HF) or ammonium bifluoride, (ABF)

Hydrofluoric acid, while an extremely hazardous material, is used in coil cleaners to etch and brighten aluminum. The etching of the aluminum removes contaminants by removal of the substrate under the contamination. This process creates hydrogen gas which is entrapped by the detergents in the cleaner forming a foam that increases surface contact time on vertical surfaces, as well as pushing contamination outward from the center of the coil. These types of products should never be used indoors to clean an evaporator or chilled water coil. They should be used and labeled only as an air-cooled condenser cleaners for outdoor use.

Alkaline, Reactive, Expanding Foam Action Coil Cleaners

Primary hazardous ingredients—potassium or sodium hydroxide

Potassium or sodium hydroxide are widely used as active ingredients in coil cleaners. They clean by the same etching and hydrogen gas production method listed above for acid cleaning.

Although they do not brighten aluminum quite as well as HF or ABF, they are safer to personnel because they don't require specialized first aid for exposure. In a highly diluted form, these materials can be used for light duty cleaning to increase alkalinity (pH) of cleaning solutions. At high dilution, there will be no etching of aluminum and, therefore, no hydrogen gas and no foaming action. Of the two alkaline hydroxides listed above, potassium and sodium, sodium is the cheapest but it is also the least soluble, therefore, potassium hydroxide is the best choice for use in coil cleaner. Being more soluble, potassium hydroxide rinses off coils much easier, reducing the possibility of equipment damage.

1. Cleaners containing HF, ABF, sodium or potassium hydroxide are for cleaning air-cooled condensers only, outdoors.
2. Cleaner containing either potassium hydroxide or sodium hydroxide:
 - Heavy-Duty Cleaning: High concentrations that produce reactive, expanding foaming action from etching and gas release
 - - Light Duty Cleaning: Dilute concentrations that do not etch and produce hydrogen gas.

Evaporator Coil Cleaners

Evaporator cleaners should not etch aluminum or produce hydrogen gas (foam). Instead they should be non-corrosive, as non-toxic as possible, and not contain ingredients that could cause system deterioration or toxic or noxious odors in air-conditioned space.

An evaporator cleaner is designed to penetrate and emulsify contaminants, thereby making them water soluble so that either rinsing or condensation will remove them from the coil. Our products utilize pH builders and corrosion inhibitors, as well as surfactants and non-toxic solvents to accomplish the job. They are virtually odorless, do not produce flammable hydrogen gas, will not etch aluminum, and yet clean very well.

Dual Purpose Coil Cleaner

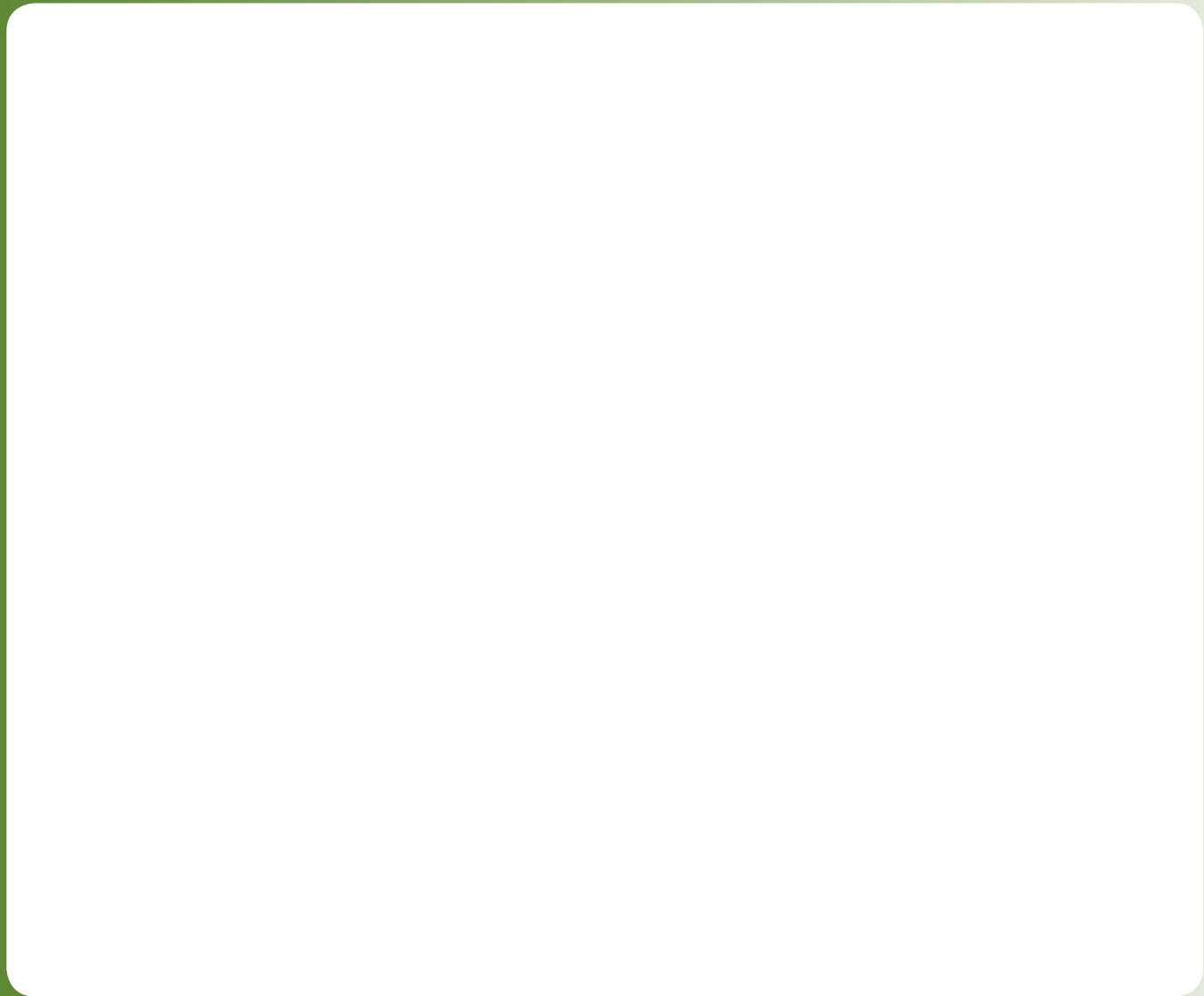
Evaporators and Condensers

This product was formulated to be completely environmentally safe. It contains no ingredients that are considered to be pollutants and is labeled for use on both evaporators and condensers, for use indoors and outdoors.

It is very effective on evaporators and will do a good job on air-cooled condensers. It does not etch the aluminum fins on condensers nor does it create hydrogen gas and foam. It will remove most contaminants and leave a clean surface to enhance heat transfer efficiency

Dealer Contact

Contact your local dealer today.



Important Notice to User

Product Use and Technical Information: Many factors beyond Ingersoll Rand's control and uniquely within user's knowledge and control can affect the use and performance of a Start to Finish product and the performance of a product in a particular application cannot be guaranteed. User is responsible for evaluating the product and determining whether it is fit for a particular purpose and suitable for user's method of application. User should carefully read the entire label and Safety Data Sheet for a particular product before use. Safety Data Sheets can be found at [\[insert link to SDS\]](#).

Limitation of Liability: The sole remedy for breach of warranty is replacement of the product or refund of the purchase price, at Ingersoll Rand's discretion. Ingersoll Rand is not liable for any loss or damage arising from the use of a Start to Finish product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted.



ingersollrand.com

Ingersoll Rand (NYSE:IR) advances the quality of life by creating comfortable, sustainable and efficient environments. Our people and our family of brands—including Club Car®, Ingersoll Rand®, Thermo King® and Trane®—work together to enhance the quality and comfort of air in homes and buildings; transport and protect food and perishables; and increase industrial productivity and efficiency. We are a \$13 billion global business committed to a world of sustainable progress and enduring results.