

Safe, user-friendly, non-toxic HVACR chemicals

PRODUCT CATALOGUE



Ice machine
cleaner

Coil protection

Mobile

Coil cleaners



Applicators

Hand cleaners

Welding compounds

Sanitisers

Commercial

Industrial

Disinfectants

Refrigerant testing

Pan and drain treatment

Leak
detectors

Sealants and lubricants



Certified
FOOD PROCESSING AREAS



Technician
FRIENDLY



Technician
SAFE



All Refrigeration Technologies products are environmentally safe, approved for use around food and come from sustainable sources.



REFRIGERATION
TECHNOLOGIES

COMFORT THROUGH CHEMISTRY

“Developed by a service technician for service technicians”

24/7 LOCAL TECHNICAL SUPPORT BY QUALIFIED REFRIGERATION TECHNICIANS

Founded in 1987 by a former chemist and HVACR technician, Refrigeration Technologies is a dedicated group of industry professionals with technical experience and scientific expertise.

We remain a family owned, operated and managed company that designs, formulates, produces and quality controls all our own chemicals in-house.

All our products are designed by technicians, for technicians.

 **3000+**
Stocking locations
worldwide

 **60+**
Team members
worldwide

 **1000+**
Years of combined
experience

 **1**
Happy family



John Pastorello
Refrigeration Technologies founder, chemist and former HVACR contractor



The technician-safe, non-hazardous range of Refrigeration Technologies HVACR chemicals and products have been part of the SuperCool Group in Australia for more than 20 years. Group General Manager Jon Mitchell, who is a qualified refrigeration

engineer, is committed to delivering a safe and non-toxic environment for all technicians using chemicals in the servicing of air-conditioning and refrigeration equipment.

Jon says,

“In my early years as a refrigeration trade apprentice, I very quickly learnt the importance of keeping heat exchangers clean for maximum efficiency. Our Viper Coil Cleaners allowed us to introduce complete safety for people and technicians, even in and around food processing areas, when we were working in the cold chain.”

“A key factor for all technicians to take note of – as I did – is that if a product is certified for use in and around food processing areas, it will be safe and reliable for use by everyone.”

“This is a crucial part of our company offering; to bring well-engineered, high-performance and safe products to our industry.”



Jon Mitchell
General Manager
SuperCool Group of
Companies

Technical Support: 1800 628 133



INNOVATION

Slaying at the top of your game requires the constant pursuit of improvement and value. Innovative products inspire technicians into new and better ways of working.



SCIENCE

Chemists by trade, our products go through an extensive formulation and quality control process on site before landing in the hands of service professionals worldwide.



COLLABORATION

Creating partnerships with technicians is important. Our sample program was developed to engage our customers and discuss how improvements could be made to meet growing expectations.



PURPOSE

Our products are created to prolong the life of equipment and the people who maintain it. We are passionate about education, science, creating sustainable solutions and lifelong relationships.



Partner to



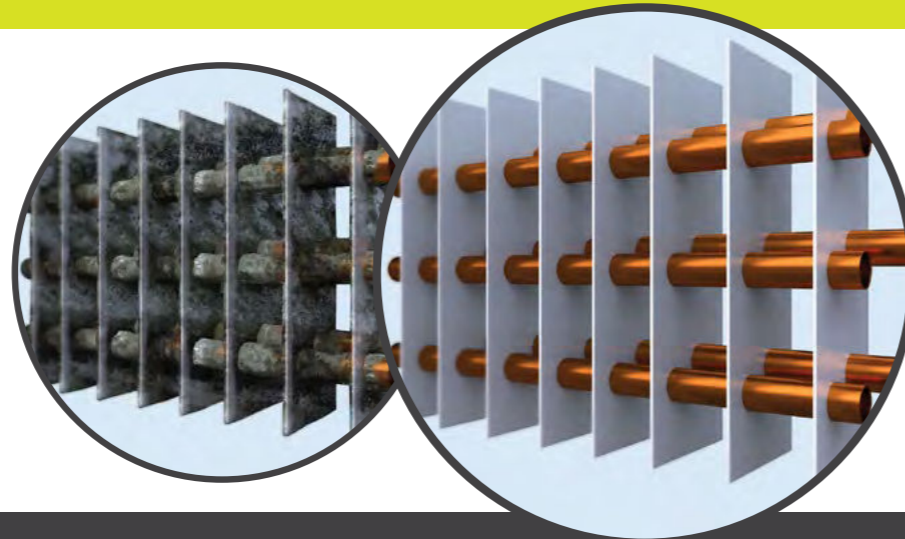
for the past 25 years

REGULAR MAINTENANCE

IS THE NEW INDUSTRY

A regular and structured HVACR cleaning regime is much more cost-effective and far less disruptive than an unexpected system failure.

Although some badly contaminated coils might be rescued, owners of commercial and industrial buildings and vehicles are quickly realising the value of structured coil cleaning programs that also reduce energy costs while improving air quality and hygiene.



CREATE SYSTEM MAINTENANCE PLANS ACCORDING TO LEGISLATION



Industry manuals such as AIRAH DA19 and DA26 provide all the information you need to create customised HVACR maintenance plans for your customers to ensure they meet legislative requirements.



CREATE A SAFER

ENVIRONMENT

The best HVACR maintenance practices ensure coil cleanliness in order to avoid the spread of pathogens (viruses, bacteria, fungus, and parasites).

Applying disinfectant to heavily soiled coils does not eliminate contamination

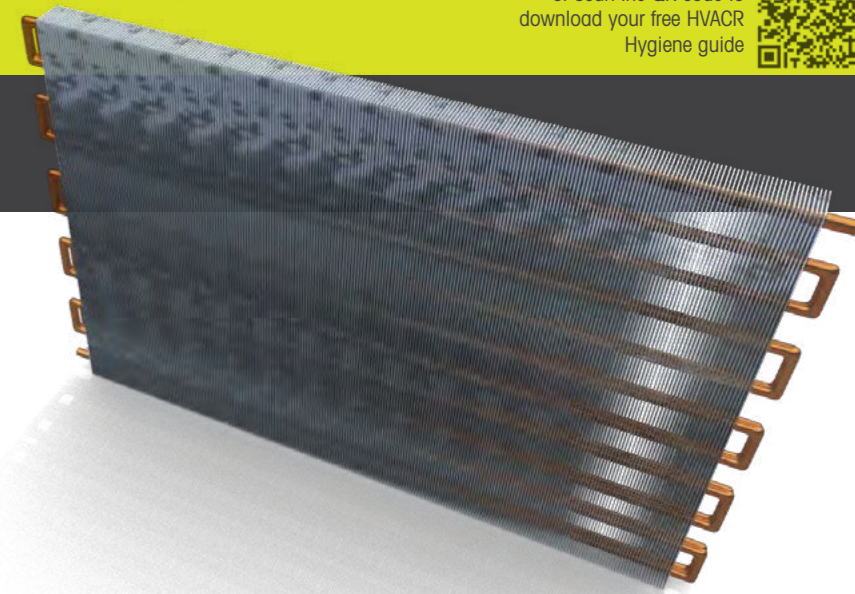
Disinfectants do not remove or digest organic matter such as mould and natural fats – that can act as food sources for germs – especially within a heat exchanger.

Applying anti-bacterial cleaners and commercial grade disinfectants to a clean surface dramatically reduces the risk of continued microbial growth and delays further microbial growth by extending product life on the surface.



CLEAN FILTERS = HEALTHY AIR

In conjunction with clean coils, regular replacement and cleaning of return air filters helps reduce the likelihood of germs and bacteria spreading through an HVACR system as well as reducing condensation, which provides pathways for bacteria and germs that can spread rapidly through droplets.



Visit SuperCool.com.au or scan the QR code to download your free HVACR Hygiene guide



Aerosol coil cleaner and degreaser

COIL CLEANERS

Viper Coil Cleaner (aerosol coil cleaner)	6
Viper Heavy Duty (universal coil cleaner)	7
Viper EVAP+ (non-rinsing evaporator coil cleaner)	8
Viper Brite (premium strength alkaline coil cleaner)	9

MAXIMUM STRENGTH VENOM PACKS

Viper Brightener Cleaner	10
Viper Evaporator Cleaner	11
Viper Condenser Cleaner	12
Viper All-Purpose Cleaner	13

APPLICATORS

Viper Foam Gun (self-mixing foam applicator)	14
Viper Foam Sprayer (2-in-1 hand pressure sprayer)	15

PAN AND DRAIN TREATMENT

Viper Pan & Drain Treatment (blockage prevention)	16
---	----

COIL PROTECTION

Viper Coil Coating (permanent epoxy resin)	17
--	----

ICE MACHINE CLEANER

Viper Nickel Safe (rapid scale removal)	18
---	----

SEALANTS AND LUBRICANTS

Nylog (gasket and thread sealant/lubricant)	19
Viper Silicone Grease (lubricant and heat sink)	20

WELDING COMPOUNDS

Viper WetRag (brazing protection)	21
Viper Heat Blocking Gel (fire protection)	22

REFRIGERANT TESTING

Viper Checkmate Kit (contamination detector kit)	23
--	----

LEAK DETECTORS

The Original Big Blu (micro leak detector)	24
--	----

HAND CLEANERS

Viper Wipes (multi-purpose wipes)	25
---	----

SANITISERS

Viper Hand Rub Sanitiser (alcohol free liquid hand sanitiser)	26
---	----

DISINFECTANTS

Viper Germicidal (hard surface disinfectant – hospital grade)	27
---	----

Coil cleaner selection	28
Dilution guide	29
Where to use	31
Certifications	35
Special applications	36
SuperTest	37

PRODUCT OVERVIEW

Viper Coil Cleaner is a potent degreasing compound that contains no hazardous ingredients, produces no toxic fumes and is food industry compliant (NSF certified). It's the perfect cleaner for small and hard-to-get-at coils and heat exchangers.

USED WHERE

Viper Aerosol Coil Cleaner is excellent for cleaning small kitchen equipment, HVACR condenser coils and HVACR evaporator coils. Automotive applications include radiators, intercoolers, EV thermal management heat exchangers, oil coolers, gearboxes, transfer cases and engine bays.

See *Where to Use* on pages 31-34.

USED HOW

Visit SuperCool.com.au or scan the QR code below to access the Technical Data Sheet for Viper Coil Cleaner.

FAST FACTS

- This high-performance cleaner is completely safe for you, the equipment and the environment
- The aerosol injector produces rich penetrating foam, allowing for extended contact and excellent vertical hold on the coil, giving it time to break down a wide variety of contaminants
- Minimal clean-up: Evaporators need no rinsing and just a light water rinse is required for other coils and heat exchangers
- Safe to use on all surfaces, plastics and rubbers
- The product ratio is 92% product and 8% propellant



Part number: RT375A



Certified
NSF, EPA, Kosher,
biodegradable and
eco-friendly



Food Safe
Approved for use
in and around food
processing areas



No odours
Does not contain any
added fragrances or
produce toxic fumes



Small Equipment
Lightweight, portable,
and convenient for small
equipment



Micro-channel
OEM approved for
aluminium and micro-
channel coils



All types of heat exchangers
Evaporators, condensers,
radiators, intercoolers, oil coolers



Technical Data Sheet

VIPER HEAVY DUTY

Universal coil cleaner and degreaser

VIPER EVAP+

Non-rinsing evaporator coil cleaner

PRODUCT OVERVIEW

Use Viper Heavy Duty as an alternative to hazardous acid or alkaline cleaners for unbelievable multipurpose cleaning and degreasing performance on coils, heat exchangers and other surfaces. It is non-flammable, contains no hazardous ingredients, produces no toxic fumes, is non-irritating, pH neutral, biodegradable and food industry compliant (NSF certified).

USED WHERE

HVACR condensers, HVACR evaporators, radiators, intercoolers, EV thermal management heat exchangers, drivetrain hardware and components, engine bays AHU rooms, cold rooms and refrigerated trailers.

See *Where to Use* on pages 31-34.

USED HOW

Visit SuperCool.com.au or scan the QR code below to access the Technical Data Sheet for Viper Heavy Duty.



Part number: RT390G



PRODUCT OVERVIEW

Viper Evap+ contains slow-release enzymes in a synthetic detergent base to create the best-performing non-rinsing evaporator coil cleaner. This all-natural, non-flammable, non-toxic, non-irritating, pH neutral, biodegradable and food industry compliant (NSF certified) ready mix formula shifts embedded soils that resist conventional detergents and is a highly effective deodoriser.

USED WHERE

HVACR evaporators.

See *Where to Use* on pages 31-34.

USED HOW

Visit SuperCool.com.au or scan the QR code below to access the Technical Data Sheet for Viper Evap+.



Part number: RT350G



FAST FACTS

- Effectively destroys heavy organic or synthetic contaminants such as mould, petroleum-based grease, dirt and natural fats
- Compared with an alkaline product such as Viper Brite (RT300G) or Viper Brightener Cleaner (RT310V), Viper Heavy Duty will not lift oxidation and hard carbon deposits
- Minimal clean-up: Evaporators need no rinsing and just a light water rinse is required for other coils and heat exchangers
- Doubles as a brilliant cold room / AHU room / refrigerated trailer cleaner and degreaser.
- Safe to use on all surfaces, plastics and rubbers

FAST FACTS

- The enzymes in Viper Evap+ break up protein, fats, oils, carbohydrates, tobacco sludge and the biological films that cause smelly evaporator syndrome
- Viper Evap+ works especially well in cold conditions and the enzymes continue to clean even after the detergent is depleted, making it especially effective on big or small evaporators that produce lots of condensation
- Drain pan and lines are also cleaned by Evap+ and the enzymes prevent future dirt and grime build-up. The sister product for treating highly soiled drains and pans is Viper Pan & Drain Treatment (RT800S)



Technical Data Sheet



Certified

NSF, EPA, Kosher, biodegradable and eco-friendly



Food Safe

Approved for use in and around food processing areas



No odours

Does not contain any added fragrances or produce toxic fumes



Large Equipment

Super concentrated for large and multi-unit equipment



Concentrate

High dilution ratio for maximum cost savings



Micro-channel

OEM approved for aluminium and micro-channel coils



All types of heat exchangers

Evaporators, condensers, radiators, intercoolers, oil coolers



Certified

NSF, EPA, Kosher, biodegradable and eco-friendly



Food Safe

Approved for use in and around food processing areas



No Odours

Does not contain any added fragrances or produce toxic fumes



Non-rinsing

Slow release, enzyme-based chemical, just spray and walk away



Deodoriser

Contains enzymes that break down odour-causing bacteria



Micro-channel

OEM approved for aluminium and micro-channel coils



Evaporators

Best-performing enzyme ready mix for all types of hard-working evaporators



Technical Data Sheet

VIPER BRITE

Premium strength alkaline coil cleaner

VIPER BRIGHTENER CLEANER

Universal coil cleaner & brightener (condensers & evaporators)

VENOM
PACK™

PRODUCT OVERVIEW

Viper Brite is a super-effective biodegradable, food industry compliant (NSF certified) non-acid foaming coil cleaner and aluminium brightener. The alkaline expanding foam produced by Viper Brite clears blockages caused by dirt, grease, grime, hard carbon, oxidation, cement and coal dust from all outdoor condenser coils, commercial and industrial evaporators and heat exchangers, completely restoring heat transfer properties across the entire coil.

USED WHERE

Outdoor HVACR condenser coils and fully blocked HVACR evaporators. Automotive applications include fully blocked radiators, fully blocked intercoolers, fully blocked EV thermal management heat exchangers (take precautions to prevent Viper Brite from coming into contact with sensitive vehicle components or painted and chrome surfaces).

See *Where to Use* on pages 31-34.

USED HOW

Visit SuperCool.com.au or scan the QR code below to access the Technical Data Sheet for Viper Brite.



Part number: RT300G



FAST FACTS

- For best results, apply Viper Brite through our exclusive Viper Foam Gun (RT300S) or Viper 2-in-1 Foam Sprayer (RT301S)
- For heavily contaminated larger coils or heat exchangers that have a removable surrounding flange for access to the top of the coil, pour a 5:1 dilution of Viper Brite down the middle of the coil and let gravity do its work
- Viper Brite will remove all factory corrosion protection coatings, so use Viper Coil Coating (RT640A) to restore protection
- Never use acids to clean coils. They are more dangerous than alkaline solutions and destroy the bond between aluminium fins and copper tubing, resulting in loss of heat transfer

PRODUCT OVERVIEW

Restore neglected and extremely dirty coils and heat exchangers to their original performance with this pure concentrate, biodegradable, food industry compliant (NSF certified) non-acid foaming coil cleaner and aluminium brightener. The proprietary alkaline expanding foam produced by Viper Brightener Cleaner clears blockages, stripping coils and heat exchangers of heavily embedded grease and grime, restoring the metal to a bright 'like new' shine.

USED WHERE

Outdoor HVACR condenser coils and fully blocked HVACR evaporators. Automotive applications include fully blocked radiators, fully blocked intercoolers, fully blocked EV thermal management heat exchangers (take precautions to prevent Viper Max Strength Brightener from coming into contact with sensitive vehicle components or painted and chrome surfaces).

See *Where to Use* on pages 31-34.

USED HOW

Visit SuperCool.com.au or scan the QR code below to access the Technical Data Sheet for Viper Brightener Cleaner.



Part number: RT310V

FAST FACTS

- This max strength product must be used by skilled HVACR professionals only
- For best results, apply Viper Brightener Cleaner through our exclusive Viper Foam Gun (RT300S) or Viper 2-in-1 Foam Sprayer (RT301S)
- Viper Brightener Cleaner will remove all factory corrosion protection coatings, so use Viper Coil Coating (RT640A) to restore protection
- Never use acids to clean coils. They are more dangerous than alkaline solutions and destroy the bond between aluminium fins and copper tubing, resulting in loss of heat transfer



No-mess pour



Compact, durable soft pack



Economical to freight



Pure concentrate



Technical Data Sheet



Certified

NSF, EPA, Kosher, biodegradable and eco-friendly



Food Safe

Approved for use in all food processing areas



High Foaming

Super cleaning power coil brightener, degreasing and oxidation removal



Non-Acid

Alkaline based non-acid cleaner



Concentrate

High dilution ratio delivers cost savings



Commercial & Industrial Evaporators/Heat Exchangers

Coil-brightening alkaline concentrate



Certified

NSF, EPA, Kosher, biodegradable and eco-friendly



Food Safe

Approved for use in all food processing areas



High Foaming

Super cleaning power coil brightener, degreasing and oxidation removal



Non-Acid

Alkaline based non-acid cleaner



Commercial & Industrial Evaporators/Heat Exchangers

Coil-brightening alkaline concentrate



Condensers

Coil brightening alkaline concentrate



Technical Data Sheet

VIPER EVAPORATOR CLEANER

Non-rinsing evaporator coil cleaner & deodoriser

VENOM
PACK™

PRODUCT OVERVIEW

Viper Evaporator Cleaner is a non-rinsing pure concentrate with specialty detergents that attack stubborn, heavily embedded grease, grime and dirt, plus proprietary slow-release enzymes to destroy and prevent odour-causing bacterial growth. This 2-in-1 product eliminates the cost and hassle of needing a separate cleaner and treatment, is all-natural, non-flammable, non-toxic, non-irritating, pH neutral, biodegradable and food industry compliant (NSF certified).

USED WHERE

HVACR evaporators.
See *Where to Use* on pages 31-34.

USED HOW

Visit SuperCool.com.au or scan the QR code below to access the Technical Data Sheet for Viper Evaporator Cleaner.



Part number: RT320V

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-
-
-

FAST FACTS

- The enzymes in Viper Evaporator Cleaner break up protein, fats, oils, carbohydrates, tobacco sludge and the biological films that cause smelly evaporator syndrome
- Viper Evaporator Cleaner works especially well in cold conditions and the enzymes continue to clean even after the detergent is depleted, making it especially effective on big or small evaporators that produce lots of condensation
- Drain pan and lines are also cleaned by Viper Evaporator Cleaner and the enzymes prevent future dirt and grime build-up. The sister product for treating highly soiled drains and pans is Viper Pan & Drain Treatment (RT800S)

- No-mess pour
- Compact, durable soft pack
- Economical to freight
- Pure concentrate

VIPER CONDENSER CLEANER

Universal coil cleaner & degreaser (condensers & evaporators)

VENOM
PACK™

PRODUCT OVERVIEW

Viper Condenser Cleaner is a high-foaming pure concentrate blend of specialty detergents that liquifies heavily embedded grease and grime to restore heat transfer efficiency of a coil or heat exchanger. It's also non-flammable, contains no hazardous ingredients, produces no toxic fumes, is non-irritating, pH neutral, biodegradable and food industry compliant (NSF certified).

USED WHERE

HVACR condensers, HVACR evaporators, radiators, intercoolers, EV thermal management heat exchangers, drivetrain hardware and components, engine bays AHU rooms, cold rooms and refrigerated trailers.
See *Where to Use* on pages 31-34.

USED HOW

Visit SuperCool.com.au or scan the QR code below to access the Technical Data Sheet for Viper Condenser Cleaner.



Part number: RT330V

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-
-
-

FAST FACTS

- Effectively destroys heavy organic or synthetic contaminants such as mould, petroleum-based grease, dirt and natural fats
- Compared with an alkaline product such as Viper Brite (RT300G) or Viper Brightener Cleaner (RT310V), Viper Condenser Cleaner will not lift oxidation and hard carbon deposits
- Minimal clean-up: Evaporators need no rinsing and just a light water rinse is required for other coils and heat exchangers
- Doubles as a brilliant cold room / AHU room / refrigerated trailer cleaner and degreaser
- Safe to use on all surfaces, plastics and rubbers

- No-mess pour
- Compact, durable soft pack
- Economical to freight
- Pure concentrate



Technical Data Sheet

- Certified**
NSF, EPA, Kosher, biodegradable and eco-friendly
- Food Safe**
Approved for use in all food processing areas
- No Odours**
Does not contain any added fragrances or produce toxic fumes
- Non-rinsing**
Slow release, enzyme-based chemical; just spray and walk away
- Deodoriser**
Contains enzymes that break down odour-causing bacteria
- Micro-channel**
OEM approved for aluminium and micro-channel coils
- Evaporators**
The ultimate enzyme-based cleaner for big, hard-working evaporators



Technical Data Sheet

- Certified**
NSF, EPA, Kosher, biodegradable and eco-friendly
- Food Safe**
Approved for use in all food processing areas
- No Odours**
Does not contain any added fragrances or produce toxic fumes
- Large Equipment**
Super concentrated for large and multi-unit equipment
- Micro-channel**
OEM approved for aluminium and micro-channel coils
- All types of heat exchangers**
Evaporators, condensers, radiators, intercoolers, oil coolers

VIPER ALL-PURPOSE CLEANER

Advanced cleaner and degreaser – just spray & wipe

VENOM
PACK™

PRODUCT OVERVIEW

Viper All-Purpose Cleaner is a hybrid aqueous detergent using the most advanced cleaning technology available to wash away bacteria, stubborn soils and heavily embedded cooking greases, and is extremely effective on everyday dirty surfaces. The broad-spectrum formulation is non-flammable, non-toxic, eco-friendly, biodegradable, produces no odour, contains no allergenic composites and is food industry compliant (NSF certified).

USED WHERE

Use Viper All-Purpose Cleaner in the workshop, in the field or at home for maximum soil and grease removal from most any type of surface. Safe for all plastics, rubbers and metals including aluminium.

See *Where to Use* on pages 31-34.

USED HOW

Visit SuperCool.com.au or scan the QR code below to access the Technical Data Sheet for Viper All-purpose Cleaner.



Part number: RT340V



FAST FACTS

- Viper All-Purpose Cleaner is your go-to cleaner for just about anything, designed to be safe for the user and fully compliant with all environmental directives
- Each pure concentrate Venom Pack of Viper All-Purpose Cleaner can make up to 24 litres of advanced cleaning power



No-mess pour



Compact, durable soft pack



Economical to freight



Pure concentrate



Technical Data Sheet



Certified
NSF, EPA, Kosher, biodegradable and eco-friendly



Food Safe
Approved for use in all food processing areas



No Odours
Does not contain any added fragrances or produce toxic fumes

VIPER FOAM GUN

Self-mixing foam applicator

PRODUCT OVERVIEW

The Viper Foam Gun is the easiest and most cost-effective way to clean coils, HVACR equipment, radiators, plate heat exchangers, mechanical equipment and hardware. The foam injection method covers the surface of a coil much faster and increases contact time over conventional pressure sprayers. There's no heavy equipment to carry and no need to pre-dilute, just plug the Viper Foam Gun into any garden hose connection, dial in the dilution ratio, aim and activate the trigger.

USED WHERE

Apply Viper Heavy Duty (RT390G), Viper Condenser Cleaner (RT330V), Viper Brite (RT300G) or Viper Brightener Cleaner (RT310V) through the Viper Foam Gun for better coverage and contact time.

See *Where to Use* on pages 31-34.



Part number: RT300S

SPARE PARTS SOLD SEPARATELY



PISTOL GRIP
Part number: RT751BU
SIPHON TUBE
Part number: RT95HG24

FOAM WAND
Part number: RT7571GM
DEFLECTOR
Part number: RT7319

FAST FACTS

- The Viper Foam Gun will cover the surface of a coil much faster, and in a more efficient way, than a pressure sprayer – and you don't have to stop and refill as often
- There are five different dilution ratios to choose from: A = 80:1, B = 40:1, C = 20:1, D = 10:1, E = 5:1, O = water (chemical siphoning disabled)
- To clean a refrigerated vehicle's cargo area, cold room or AHU room, don't use Viper Brite or Viper Brightener Cleaner, instead use Viper Heavy Duty (RT390G) on a light B or C ratio setting or Viper Condenser Cleaner (RT330V) on a light B or C ratio setting, followed by a thorough rinse



No Mixing
Low dilution ratios for maximum cleaning power and high dilution ratio for maximum cost savings



Technician SAFE
Developed by a service technician for service technicians

VIPER FOAM SPRAYER

2-in-1 hand pressure sprayer

VIPER PAN & DRAIN TREATMENT

Blockage prevention

PRODUCT OVERVIEW

Viper Foam Sprayer is a 2-in-1 device capable of producing foam or a jet spray and is compatible with all Viper Coil Cleaners, Venom Packs, Viper Pan & Drain Treatment and Viper Big Blu Leak Detector.

USED WHERE

The Viper 2-in-1 Foam Sprayer is suitable for applying undiluted Viper Evap+ (RT350G), Viper Pan & Drain Treatment (RT 800S), any Viper Big Blu product (except Brush On) and Viper Germicidal Disinfectant (RT8952), or the desired dilution of Viper All-Purpose Cleaner (RT340V) Viper Evaporator Cleaner (RT320V), Viper Heavy Duty (RT390G) and Viper Brite (RT300G) Viper Brightener Cleaner (RT310V).

See *Where to Use* on pages 31-34.

USED HOW

Visit SuperCool.com.au or scan the QR code below to access the instruction sheet for Viper Foam Sprayer.



Part number: RT301S

FAST FACTS

- The Viper Foam Sprayer's foaming nozzle mode works with concentrate solutions and jet nozzle mode works with ready mix liquids
- All seals and O-rings on the Viper Foam Sprayer are rated for liquids with a pH level between 7 and 14

PRODUCT OVERVIEW

Viper Pan and Drain Treatment is a non-flammable, non-toxic, biodegradable and food industry compliant (NSF certified) triple-action gel that stops chronic drain blockages and has been proven to both outperform and outlast most tablets or strips. Enzymes break up and disperse slime, sludge, algae, stains and odour-causing bacteria while a slow-dissolving silicone detergent prolongs the cleaning process and leaves a slippery silicone coating on treated surfaces to prevent future contaminant build-up.

USED WHERE

Condensate pans and lower sections of evaporator coils.

USED HOW

Visit SuperCool.com.au or scan the QR code below to access the Technical Data Sheet for Viper Pan & Drain Treatment.



Part number: RT800S

FAST FACTS

- Viper Pan & Drain Treatment is chemically compatible with Viper Evap+ (RT350G), Viper Evaporator Cleaner (RT320V) Viper Heavy Duty (RT390G), Viper Coil Cleaner (RT375A) and Viper Condenser Cleaner (RT330V), and should be used in tandem with these to totally remove grease, grime and sludge in the entire evaporator section, p-trap and drain line
- Viper Pan & Drain Treatment can take up to three months to fully dissolve, depending on how much condensation is generated and if the applied area is heavily soiled. To keep the drain and pan clean and clear all year round, we recommend you reapply Viper Pan & Drain Treatment at every service
- Unlike tablets or strips, the entire condensate pan can be spray-coated for complete coverage



Technical Data Sheet



Quality

Developed specifically for HVACR and mechanical technicians



Technician SAFE

Developed by a service technician for service technicians



Certified

NSF, EPA, Kosher, biodegradable and eco-friendly



Food Safe

Approved for use in and around food processing areas



Odour Control

Specialty enzymes break down odour-causing bacteria



Cleaner

Slow dissolving gel cleans entire pan and drain



Treatment

Silicone detergents leave behind a slick surface preventing future drain blockage



Full Coverage

Sprayable product allows for full coverage unlike tabs or strips



Technical Data Sheet

VIPER COIL COATING

Permanent epoxy resin

VIPER NICKEL SAFE

Rapid scale removal

PRODUCT OVERVIEW

Viper Coil Coating is the same formulation as supplied to OEMs and custom heat exchanger manufacturers. It is the toughest and longest-lasting coating you will ever use, able to protect coils, heat exchangers, fins and other metal surfaces from salt water and many other chemically corrosive environments that face industries such as maritime and mining. The solvent-borne clear coating meets all State and Federal VOC regulations, bonds to all metal surfaces and withstands continuous temperatures to 205°C.

USED WHERE

HVACR condensers, HVACR evaporators, radiators, intercoolers, EV thermal management heat exchangers, all bare metals.

USED HOW

Visit SuperCool.com.au or scan the QR code below to access the Technical Data Sheet for Viper Coil Coating.



Part number: RT640A



PRODUCT OVERVIEW

Viper Nickel Safe is a blend of proprietary organic acids that remove more scale faster than traditional low-tech phosphoric acid cleaners, without damaging surfaces. Viper Nickel Safe is biodegradable, odourless, non-fuming, and much lower in toxicity and more water soluble than phosphoric acid, meaning an easier and more complete rinse. No wonder world health authorities and leading OEMs such as Manitowoc™ recommend Viper Nickel Safe!

USED WHERE

Any ice machine with nickel plated or stainless steel evaporators.

USED HOW

Visit SuperCool.com.au or scan the QR code below to access the Technical Data Sheet for Viper Nickel Safe.



Part number: RT500G

Part number: RT500N



FAST FACTS

- Viper Coil Coating's 92% product to 8% propellant ratio is high compared with competitors and provides greater surface coverage. Typically, one can of Viper Coil Coating will service the entire coil surface area of a 30kW condensing unit
- The aerosol injectors flat vertical spray pattern reaches deep into the coil body and heat transfer loss is less than 0.15% when used as directed
- Because Viper Coil Coating's is solvent based, not water based, it will bond to base metals that are not entirely free of corrosion or oxidation with a fast drying time and no softening or blistering of the coating will occur during application

FAST FACTS

- Before Viper Nickel Safe was invented, ice machine cleaners were nothing more than low-tech phosphoric acid
- Viper Nickel Safe Ice Machine Cleaner removes scale 75% faster than generic citrus or phosphoric-based cleaners, yet is food industry compliant (NSF certified)
- This product was originally developed for a globally recognised ice machine manufacturer



Technical Data Sheet



Certified
Kosher and meets all State and Federal VOC regulations



OEM
Used by OEMs worldwide



Tested
4300 hours at 60°C (10% Salt immersion)



Permanent Corrosion Protection
Epoxy resin coating for extreme weather, salt and chemical environments



Fast Drying
Perfect for onsite applications



Certified
NSF, EPA, Kosher, biodegradable and eco-friendly



Superior Scale Removal
Removes scale unlike enzymatic-based sanitisers



Food Safe
Approved for use in and around food processing areas



OEM Approved
Nickel-plated evaporators (phosphate free)



Technical Data Sheet

VIPER NYLOG

Gasket and thread sealant/lubricant

VIPER SILICONE GREASE

Lubricant and heat sink

PRODUCT OVERVIEW

Viper Nylog is both a lubricant and the industry's only fully compatible and completely miscible viscoelastic liquid gasket and thread sealant. It cannot contaminate, clog or cause any system restrictions and is the only sealant that remains system safe when used on any gasket or threaded connection. Guaranteed to never harden or dry, Nylog requires no setup time and remains a viscoelastic refrigeration oil for life.

Nylog comes in three varieties, all of which bond tenaciously onto many different substrates:

- Blue – Suitable for HFC, HFO and CO2 HVACR systems that contain POE or PVE oil
- Red – Suitable for NH3, propane, CFC and HCFC HVACR systems that contain mineral or alkyl benzene oil
- White – Suitable for sealing gaskets or threaded connections on gas-fired appliances, compressed air, potable water and glycol systems

USED WHERE

Thread connections, gaskets, flare fittings, tapered pipes, compression fittings, saddle taps, O-rings or as an assembly lubricant.

USED HOW

Visit SuperCool.com.au or scan the QR code below to access the Technical Data Sheet for Viper Nylog.

FAST FACTS

- Nylog Blue and Red are approved for use only on refrigeration and air-conditioning systems, nothing else. Use only Nylog White on oxygen gas, air, water or natural gas lines
- If you wanted only one Nylog bottle in your HVACR toolkit, the most universally suitable is Nylog Blue. Being POE based, it is compatible with all refrigerants and oils
- Nylog White is a blend of complex silicones and Teflon®, making it ideal for use on metal or plastic fittings as well as compatible with most rubber O-rings and composite gasket materials



Part number: RT201B



Part number: RT202W



Part number: RT200R



PRODUCT OVERVIEW

Viper Silicone Grease is the food grade lubricant of choice, with thousands of electrical, mechanical and special applications. It is a heat dissipating and heat sink compound. A water and moisture repellent for electrical devices and components. A waterproof lubricant with high thermal stability that makes it ideal for HVACR and automotive applications. High dielectric strength makes it safe for lubricating electric devices. It is also commonly used as protective coating to prevent corrosion on electrical connectors and damper motors.

USED WHERE

Electrical terminals, food equipment, water fixtures, vacuum service, O-rings, ovens, freezers, ice machines, waterproofing starter motors, 4x4 electronics and gadgets, battery terminals, PCBs, thermal fans, shafts, door mechanisms, cogs, window mechanisms, windscreen wiper mechanisms, latches and conveyor belts.

USED HOW

Visit SuperCool.com.au or scan the QR code below to access the Technical Data Sheet for Viper Silicone Grease.

FAST FACTS

- Viper Silicone Grease is safe for use on all electro-mechanical devices, protecting electrical connections and components from water, corrosion and oxidation i.e. battery terminals, 4X4 battery management and electrical systems (components, relays, connection points)
- Use Viper Silicone Grease as an infield application alternative to conformal coatings to prevent PCB contamination from environmental factors or even geckos
- Viper Silicone Grease withstands greater temperature swings than petroleum greases



Part number: RT910T



Technical Data Sheet



OEM
Used by OEMs worldwide



All Systems
Will not contaminate. Compatible with all system oils and refrigerants



Sealant
Never hardens or dries and remains temperature and vibration resistant. Seals flares and threaded connections



Lubricant
Use as an assembly lube on gaskets, O-rings and internal system components



Certified
NSF, EPA and Kosher Certified, biodegradable and eco-friendly



Food Safe
Approved for use in and around food processing areas



All Purpose
Lubricant and heat sink



Protectant
Water-resistant formula protects almost anything from environmental factors



Technical Data Sheet

VIPER HEAT BLOCKING GEL

Fire protection

PRODUCT OVERVIEW

Viper Heat Blocking Gel is a food industry compliant (NSF certified), biodegradable water-based thermal absorption compound that prevents fire or heat damage to nearby combustible materials such as upholstery, plastic, wood and drywall when using an open flame on metal surfaces. It also blocks heat transfer to valves and other heat-sensitive components when conducting low-temperature brazing or soldering.

USED WHERE

Surfaces, valves and other heat-sensitive components close to low-temperature brazing or soldering.

USED HOW

Visit SuperCool.com.au or scan the QR code below to access the Technical Data Sheet for Viper Heat Blocking Gel.



Part number: RT410S



Technician
SAFE



Certified
FOOD PROCESSING AREAS



FAST FACTS

- Viper Heat Blocking Gel is safe to use on all types of surfaces, will not leave behind any residue or discolour material and is freeze/thaw stable
- No toxic fumes or harmful chemical by-products are created during use
- Clean-up is as simple as wiping off with a clean rag
- For protection during high temperature brazing, soldering or welding, we recommend Viper WetRag (RT400P)



Certified

NSF, EPA and Kosher certified, biodegradable and eco-friendly



Food Safe

Approved for use in and around food processing areas



Non-toxic



No odours

Does not contain any added fragrances or produce toxic fumes



Protectant

Protects surfaces, valves and other sensitive parts



Technical Data Sheet

VIPER CHECKMATE KIT

Contamination detector kit

VIPER BIG BLU

Micro leak detector

PRODUCT OVERVIEW

The Checkmate method is the industry's only valid field test for measuring the acid and moisture levels (purity) of compressor oil and refrigerant. Predict and prevent the likelihood of compressor failure by checking the contaminant levels in the compressor oil of an operating HVACR system. The Detector Tubes have been tested for accuracy by ETL, Intertek Testing Services, an AHRI-approved laboratory.

USED WHERE

Refrigerant cylinders, operating HVACR systems.

USED HOW

Visit SuperCool.com.au or scan the QR code below to access the Technical Data Sheet for Viper Checkmate Kit.



FAST FACTS

- Checkmate is used worldwide by refrigerant packagers, reclaiming companies and HVACR service contractors
- Heavy wall Pyrex glass is used on each tube and packed under dry nitrogen and the high-quality brass body is coupled with HG 316 stainless steel needles
- Refrigerant oils are the opposite of engine oil in nature; they are hygroscopic (absorb moisture) and engine or petroleum oils are hydroscopic (repel moisture)
- ISO4406 states that PAG and POE oils must not exceed a moisture content of 350ppm

PRODUCT OVERVIEW

The Big Blu range of bubble leak detectors is used by OEMs and industry professionals worldwide. These strong, persistent film forming liquids are the only bubble/foam indicators capable of detecting micro gas leakage as small as 18.5 grams per year. Big Blu is certified for use on any grade of gas, including hospital-grade oxygen. Big Blu is food industry compliant (NSF certified), biodegradable, non-toxic, non-flammable and does not contain chlorine, aliphatic amines or ammonium compounds.

USED WHERE

HVACR systems, brake lines, pneumatic systems, gas lines and systems, fuel lines, refrigerant-based EV thermal management systems, fire suppression systems, hydraulic circuits.

USED HOW

Visit SuperCool.com.au or scan the QR code below to access the Technical Data Sheet for Viper Big Blu.

FAST FACTS

- Big Blu works in a temperature range of +1.7°C to +80°C. The only products that can detect leaks in temperatures lower than +1.7°C are Big Blu Brush On (-18°C to +95°C) and Big Blu Subzero (-34°C to +95°C) and they can be used while the system is running
- Oxygen safe: Unlike some competitors, Big Blu contains NO glycerine or other hydrocarbons that react with oxygen gas to produce heat, a very dangerous and possibly explosive situation
- If you have children who like making bubbles, throw some Big Blu in the bubble gun and stand back for the world's biggest bubbles. It's just as safe as dishwashing detergent



Technical Data Sheet



OEM
Used by OEMs worldwide



Certified
By an AHRI-approved laboratory



Three Tests
Acid, moisture and oil contamination



Certified
NSF and Kosher Certified, biodegradable and eco-friendly



Food Safe
Approved for use around food



OEM
Used by OEMs worldwide



Any Gas
Tested safe on all gases including oxygen



Non-corrosive
Safe to use on all types of surfaces



Microleaks
Ultra-sensitive formula detects leaks down to a rate of 18.5 grams per year



Technical Data Sheet

VIPER WIPES

Multi-purpose wipes

PRODUCT OVERVIEW

Viper Wipes are ultra-strong dual-textured waterless hand towels that will clean almost anything and are used by professional technicians worldwide on the road, in the workshop and on the roof. These convenient wipe-and-go towels absorb soils and remove the toughest of grease and grime, leaving your hands clean with no water rinse required. They also contain lanolin, aloe and vitamin E for soothing relief on hands covered with nicks, scrapes and minor cuts.

USED WHERE

Used on the road, on the roof and in the workshop to remove dirt, grease, oil, grime, tar, mastic, caulking, adhesive, tree sap and much more.

USED HOW

Visit SuperCool.com.au or scan the QR code below to access the Technical Data Sheet for Viper Wipes.



Part number: RT600S



FAST FACTS

- Viper Wipes may not be suitable for contact with some clear plastics and must not be used on instrument panels, computer screens, TV screens, microwaves and other similar equipment
- Do not use Viper Wipes on any item with a protective surface or coating

VIPER HAND RUB SANITISER

Alcohol free liquid hand sanitiser

PRODUCT OVERVIEW

To eliminate the risk of skin dryness, irritation, cracking and dermatitis that can come with the regular use of alcohol-based hand sanitisers we decided to develop a hand rub based on 0.1% benzalkonium chloride with the addition of softening agents. Compared with products that have a high alcohol content of 70% or more, Viper Hand Rub Sanitiser feels like water and saturates the hands, evaporating slowly and remaining on the skin for lasting protection. It is also non-flammable for easier and safer handling, transport and storage.

USED WHERE

Ideal for use on children, near food, plants and pets.

USED HOW

Visit SuperCool.com.au or scan the QR code below to access the Technical Data Sheet for Viper Hand Rub Sanitiser.



Part number: RT8990



FAST FACTS

- Viper Hand Rub Sanitiser feels like water and saturates the hands, evaporating slowly
- The active ingredient remains on the skin surface for lasting protection
- Kills >99.9% of bacteria
- Some brands of hand sanitiser contain a trace amount of triclosan, an antibacterial and antifungal substance banned by the FDA from appearing in skin products. Why? It's been shown to cause muscle impairment in laboratory animals



Technical Data Sheet



No-rinse



Soothing
Contains lanolin,
aloe and vitamin E



Alcohol-free
No dryness, irritation,
cracking and dermatitis



Ready-mix
Use in any conventional
household trigger sprayer



Non-flammable
Safer to handle, transport
and store



Technical Data Sheet

VIPER GERMICIDAL DISINFECTANT

Hard surface disinfectant – Hospital Grade

PRODUCT OVERVIEW

Viper Germicidal Disinfectant is a validated hospital grade ready mix solution formulated on the latest quaternary ammonium compound technology. The 4-in-1 formulation contains advanced active ingredients that are highly effective at killing bacteria and germs, and controlling mould. Subtly fragranced and pH neutral, this product is suitable for all hard surfaces and all industry sectors.

USED WHERE

HVACR Coils and components, food processing areas, hospitals, schools, supermarkets, automotive workshops, agricultural and mining vehicles, commercial offices and much more.

USED HOW

Visit SuperCool.com.au or scan the QR code below to access the Technical Data Sheet for Viper Germicidal Disinfectant.



Part number: RT8952

Part number: RT8952S



FAST FACTS

- The main difference between surface sanitisers and surface disinfectants is that sanitisers reduce the number of germs on a surface whereas disinfectants kill most of them
- Before using any disinfectant chemicals, read and follow the label. Understanding of dilution levels, the use of other additives, contact times and the importance of pre-cleaning are all vital to using these products in the most effective, safe and environmentally conscious. Your animals and our oceans will thank you!



Technical Data Sheet



Certified
Hard surface
disinfectant –
Hospital Grade



Any Hard Surface
Tested safe on all
hard surfaces



Non-corrosive
Safe to use on all types
of hard surfaces

COIL CLEANER SELECTION GUIDE

SOIL TYPES

	NATURAL FATS, GRIME, MOULD	COOKING GREASE	PETROLEUM GREASE	FOOD STAINS	TOBACCO STAINS	METAL OXIDISATION / RUST	DIRT / LINT DEBRIS	PLANT / ANIMAL DEBRIS	CALCIUM / LIME SCALE
Viper Brite	E	E	E	G	E	E	E	G	F
Viper Evap+	E	G	E	E	E	F	E	G	F
Viper Coil Cleaner	E	E	E	E	G	F	E	G	F
Viper Heavy Duty	E	E	E	E	G	F	E	G	F
Viper Pan & Drain	E	E	E	E	E	F	E	G	F

SURFACE MATERIAL

	ALUMINIUM	COPPER	STAINLESS	STEEL / IRON	PAINTED	POLYMER COATED	PLASTIC	RUBBER	COMPOSITE
Viper Brite	E	G	NR	G	NR	NR	NR	G	NR
Viper Evap+	G	E	E	E	E	E	E	G	E
Viper Coil Cleaner	G	E	E	E	E	E	E	E	E
Viper Heavy Duty	G	E	E	E	E	E	E	E	E
Viper Pan & Drain	E	E	E	E	E	E	E	G	E

SOIL TYPES


	NATURAL FATS, GRIME, MOULD	COOKING GREASE	PETROLEUM GREASE	FOOD STAINS	TOBACCO STAINS	METAL OXIDISATION / RUST	DIRT / LINT DEBRIS	PLANT / ANIMAL DEBRIS	CALCIUM / LIME SCALE
Venom Brightener	E	E	E	G	E	E	E	G	F
Venom Evaporator	E	G	E	E	E	F	E	G	F
Venom Condenser	E	E	E	E	G	F	E	G	F
Venom All Purpose	E	E	E	E	E	F	E	G	F


SURFACE MATERIAL


	ALUMINIUM	COPPER	STAINLESS	STEEL / IRON	PAINTED	POLYMER COATED	PLASTIC	RUBBER	COMPOSITE
Venom Brightener	E	G	NR	G	NR	NR	NR	G	NR
Venom Evaporator	G	E	E	E	E	E	E	G	E
Venom Condenser	G	E	E	E	E	E	E	E	E
Venom All Purpose	E	E	E	E	E	E	E	E	E


E EXCELLENT G GOOD F FAIR NR NOT RECOMMENDED NR REMOVES LOOSE PAINT NR MAY CAUSE BLUING


VIPER DILUTION GUIDE


	BRIGHTNER	CLEANING TYPE	USE (ml)	TO MAKE	LITRES PER BAG	FOAM GUN DILUTION SETTING*	
		Extreme Duty	85	1 Litre	11.3	D	
		Heavy Duty	70	1 Litre	13.8	C	
		964	Medium Duty	60	1 Litre	16.1	B
		ml	Light Duty	30	1 Litre	32.1	A

	ALL PURPOSE	CLEANING TYPE	USE (ml)	TO MAKE	LITRES PER BAG	
		Heavy Duty	85	1 Litre	12.5	
		1064	Medium Duty	60	1 Litre	17.7
		ml	Light Duty	45	1 Litre	23.6

	CONDENSER	CLEANING TYPE	USE (ml)	TO MAKE	LITRES PER BAG	FOAM GUN DILUTION SETTING*	
		Extreme Duty	85	1 Litre	12.5	D	
		Heavy Duty	60	1 Litre	17.7	C	
		1064	Medium Duty	45	1 Litre	23.6	B
		ml	Light Duty	30	1 Litre	35.5	A

	BRITE	CLEANING TYPE	DILUTE	LITRES PER BOTTLE	FOAM GUN DILUTION SETTING*	
		Heavy Duty	5:1	18.9	E	
		3780	Medium Duty	10:1	37.8	D
		ml	Light Duty	20:1	75.6	C

	EVAPORATOR	CLEANING TYPE	USE (ml)	TO MAKE	LITRES PER BAG	FOAM GUN DILUTION SETTING*	
		Extreme Duty	85	1 Litre	12.5	D	
		Heavy Duty	60	1 Litre	17.7	C	
		1064	Medium Duty	45	1 Litre	23.6	B
		ml	Light Duty	30	1 Litre	35.5	A

	HEAVY DUTY	CLEANING TYPE	DILUTE	LITRES PER BOTTLE	FOAM GUN DILUTION SETTING*	
		Heavy Duty	5:1	18.9	E	
		3780	Medium Duty	10:1	37.8	D
		ml	Light Duty	20:1	75.6	C

*When using undiluted product in the Foam Gun canister

*When using undiluted product in the Foam Gun canister



WHERE TO USE - STATIONARY



VIPER COIL CLEANER
Coil Cleaner & Degreaser
Evaporators | Condensers

Visit SuperCool.com.au or scan the QR code to access the Technical Data Sheet.

Part number: RT375A


VIPER PAN & DRAIN
Cleaner & Blockage Prevention
Condensate Pan | Drain

Visit SuperCool.com.au or scan the QR code to access the Technical Data Sheet.

Part number: RT800S





VIPER BRITE
Remediation & Rejuvenation
BLOCKED Evaporators | Condensers

Visit SuperCool.com.au or scan the QR code to access the Technical Data Sheet.

Part number: RT350G




VIPER BRIGHTENER CLEANER

Visit SuperCool.com.au or scan the QR code to access the Technical Data Sheet.

Part number: RT310V



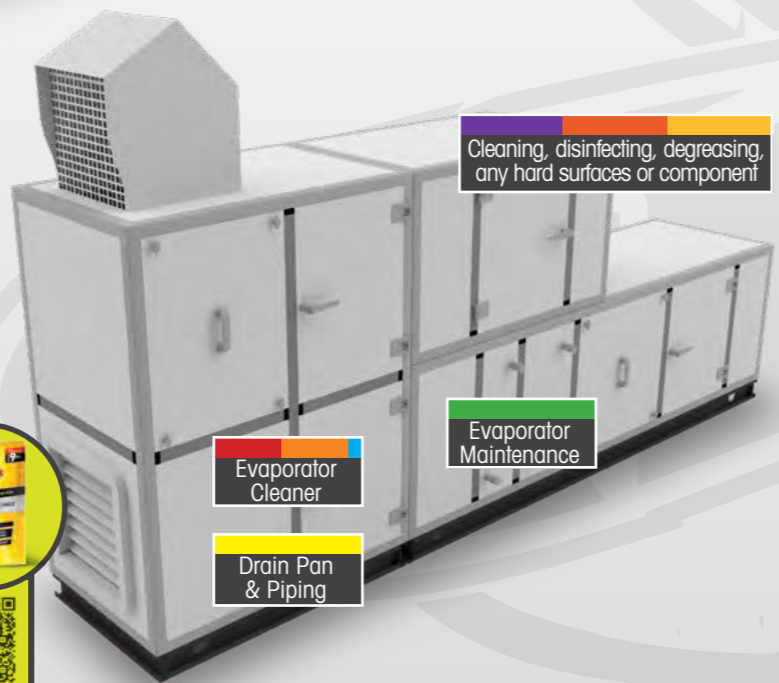


VIPER GERMICIDAL DISINFECTANT
Hard Surface Spray Disinfectant - Hospital Grade
HVACR Coil Components

Visit SuperCool.com.au or scan the QR code to access the Technical Data Sheet.

Part number: RT8952S





VIPER ALL PURPOSE CLEANER
Advanced Spray and Wipe Cleaner and Degreaser

Visit SuperCool.com.au or scan the QR code to access the Technical Data Sheet.

Part number: RT340V




VIPER HEAVY DUTY
Coil Cleaner & Degreaser
Evaporators | Condensers

Visit SuperCool.com.au or scan the QR code to access the Technical Data Sheet.

Part number: RT390G




VIPER CONDENSER CLEANER

Visit SuperCool.com.au or scan the QR code to access the Technical Data Sheet.

Part number: RT330V




VIPER APPLICATORS
Suitable for all Viper coil and surface cleaners and disinfectants

Part number: RT300S Part number: RT301S




VIPER EVAP+
Coil Cleaner & Deodoriser
Evaporators only (non-rinsing)

Visit SuperCool.com.au or scan the QR code to access the Technical Data Sheet.

Part number: RT350G



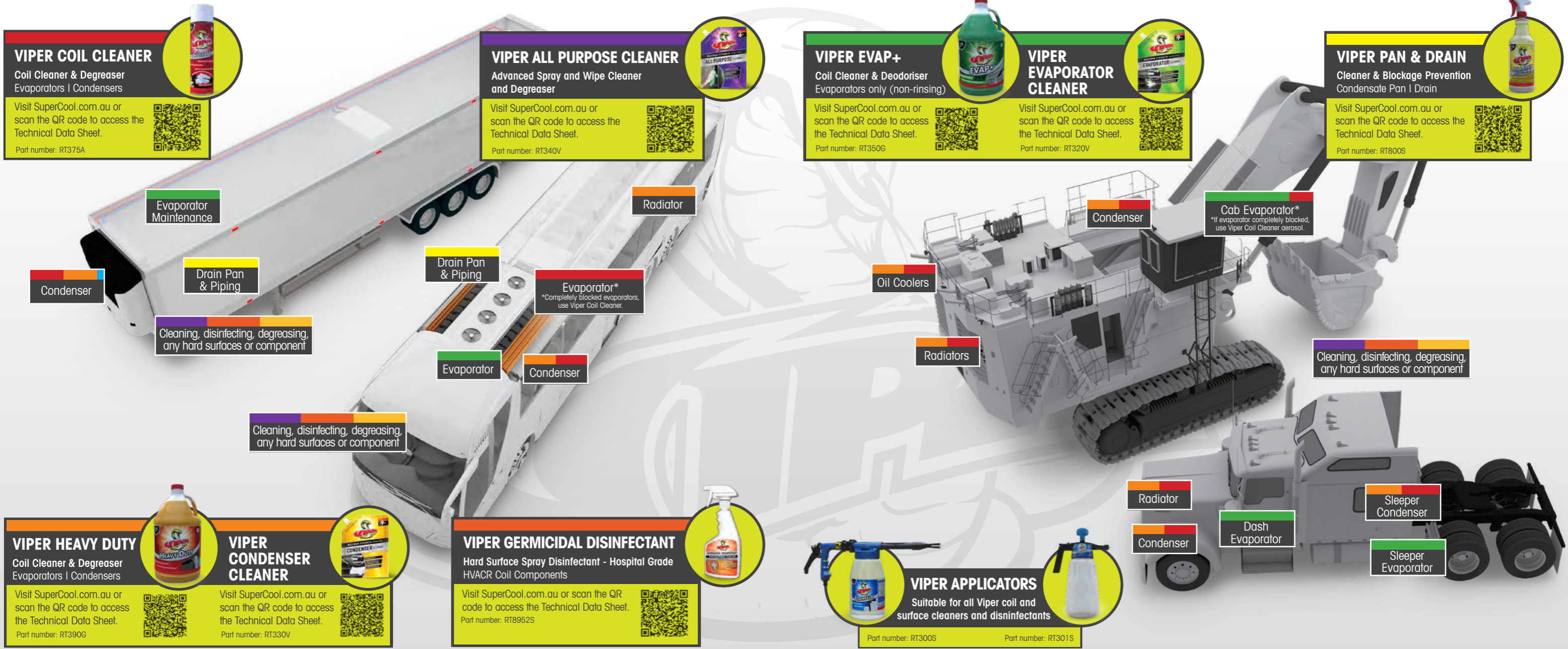

VIPER EVAPORATOR CLEANER

Visit SuperCool.com.au or scan the QR code to access the Technical Data Sheet.

Part number: RT320V




WHERE TO USE - MOBLE



VIPER COIL CLEANER
Coil Cleaner & Degreaser
Evaporators | Condensers

Visit SuperCool.com.au or scan the QR code to access the Technical Data Sheet.

Part number: RT375A

VIPER ALL PURPOSE CLEANER
Advanced Spray and Wipe Cleaner and Degreaser

Visit SuperCool.com.au or scan the QR code to access the Technical Data Sheet.

Part number: RT340V

VIPER EVAP+
Coil Cleaner & Deodoriser
Evaporators only (non-rinsing)

Visit SuperCool.com.au or scan the QR code to access the Technical Data Sheet.

Part number: RT350G

VIPER EVAPORATOR CLEANER

Visit SuperCool.com.au or scan the QR code to access the Technical Data Sheet.

Part number: RT320V

VIPER PAN & DRAIN
Cleaner & Blockage Prevention
Condensate Pan | Drain

Visit SuperCool.com.au or scan the QR code to access the Technical Data Sheet.

Part number: RT800S

VIPER HEAVY DUTY
Coil Cleaner & Degreaser
Evaporators | Condensers

Visit SuperCool.com.au or scan the QR code to access the Technical Data Sheet.

Part number: RT390G

VIPER CONDENSER CLEANER

Visit SuperCool.com.au or scan the QR code to access the Technical Data Sheet.

Part number: RT330V

VIPER GERMICIDAL DISINFECTANT
Hard Surface Spray Disinfectant - Hospital Grade
HVACR Coil Components

Visit SuperCool.com.au or scan the QR code to access the Technical Data Sheet.

Part number: RT8952S

VIPER APPLICATORS
Suitable for all Viper coil and surface cleaners and disinfectants

Part number: RT300S Part number: RT301S

CERTIFICATIONS

PRODUCT	PART NUMBER	NSF REGISTRATION	KOSHER
VIPER BIG BLU	RT100S/G/D	P1-119847	JVV-ZKMK
VIPER BIG BLU SUBZERO	RT150S/G/D	P1, HT1-119848	JVX-RKGR
VIPER BIG BLU BRUSH ON	RT175B	P1-119846	JVT-JCBM
VIPER NYLOG RED	RT200R	H2-119543	HXX-XCKS
VIPER NYLOG BLUE	RT201B	H2-119845	HXV-QKSJ
VIPER NYLOG WHITE	RT202W	P1-161942	IN REVIEW
VIPER BRITE	RT300G	F1-084269	HXX-VMMC
VIPER EVAP+	RT350G	F1-126062	HXZ-PVRJ
VIPER COIL CLEANER	RT375A	P1-120060	HZP-DQML
VIPER HEAVY DUTY	RT390G	A1-120080	HZV-GHKX
VIPER ALL-PURPOSE CLEANER VENOM PACK	RT340V	A1-160440	IN REVIEW
VIPER MAX STRENGTH BRIGHTENER VENOM PACK	RT310V	P1-160467	IN REVIEW
VIPER MAX STRENGTH EVAPORATOR CLEANER VENOM PACK	RT320V	P1-160457	IN REVIEW
VIPER MAX STRENGTH CONDENSER CLEANER VENOM PACK	RT330V	A1-160529	IN REVIEW
VIPER WETRAG	RT400P	-	HZK-NJQS
VIPER NICKEL SAFE ICE MACHINE CLEANER	RT500N/G	A3-145855	QHZ-XLJZ
VIPER COIL COATING	RT640A	-	HZV-NBDG
VIPER PAN & DRAIN CLEANER	RT800S	L1-119844	JVW-LMCZ
VIPER SILICONE GREASE	RT910T	H1-119842	HZV-KTZN

SPECIAL APPLICATIONS

PRODUCT	PART NUMBER	TESTS	LOCATION
VIPER BIG BLU	RT100S/G/D	OXYGEN SAFETY, CORROSIVITY	TRUESDALE, TUSTIN, CA
VIPER BIG BLU SUBZERO	RT150S/G/D	OXYGEN SAFETY, CORROSIVITY	TRUESDALE, TUSTIN, CA
VIPER BIG BLU BRUSH ON	RT175B	OXYGEN SAFETY, CORROSIVITY	TRUESDALE, TUSTIN, CA
VIPER NYLOG RED	RT200R	SEALED TUBE COMPATIBILITY, MISCIBILITY	INTERTEK, COLUMBUS, OH
VIPER NYLOG BLUE	RT201B	SEALED TUBE COMPATIBILITY, MISCIBILITY	INTERTEK, COLUMBUS, OH
VIPER HEAVY DUTY	RT390G	CLEANING EFFICIENCY	SGS, FAIRFIELD, NJ
VIPER CHECKMATE KIT	RT700K	DETECTOR TUBE ACCURACY	INTERTEK, COLUMBUS, OH
VIPER SILICONE GREASE	RT910T	COMPLETE PROFILE	SPECIALTY LUBRICANT, NORCO, CA



CONSULTANCY

Engaging SuperTest to assess equipment designs and operational processes enables your team to make refinements before you commit to large investments, with the potential to make substantial up-front savings and minimise ongoing costs.

TESTING AND VALIDATION

SuperTest can simulate refrigeration operating systems at set conditions to analyse individual components and convert the raw operating result of temperature (°C), airflow (L/s), power consumption (kW), fuel consumption (L/S), refrigerant mass flow (kg/s) and more, into standard engineering formulas to validate calculated outcomes.

MAINTENANCE SUPPORT

SuperTest can provide instruction manuals and products to maintain your system, to ensure it achieves the best performance all year round.

ACCESSIBLE AND AFFORDABLE TRAINING

SuperTest can provide training for the technician, manufacturer, operator and end user in best practices for the cold chain. SuperTest can also tailor regular training sessions to keep your business up to speed with the latest technologies and standards.

CONSISTENT TEMPERATURE

Control logic is vital for compliance where accepted safety standards (such as HACCP) are in place. SuperTest can assist these industries:

- Food and perishable goods
- Pharmaceuticals and medical supplies
- Information technology systems
- Passenger comfort
- Agricultural

EQUIPMENT TEST SERVICES

- Compressor performance and capacity testing
- Pre-production durability and validation testing of system components
- Refrigerant performance and capacity testing
- Efficiency testing of different system component combinations
- Simultaneous replication of performance in multiple temperature and humidity conditions

EFFECTIVENESS OF REFRIGERATION POWER

SuperTest can perform the body and system tests required to meet Australian refrigerated vehicle standards (AS 4982):

1. Must reach classification temperature and hold for 8 hours
2. Must hold classification temperature with 35% additional leakage load (from K coefficient test) for a further 4 hours

REFINING THE COLD CHAIN PROCESS

- Simulate multiple door openings and delivery intervals
- Record real-world journey temperature fluctuations
- Mapping of optimum airflow and load configurations to maintain correct product temperatures
- Determine optimum refrigeration settings to benefit manufacturers, operators and consumers

DELIVERING SCIENTIFIC EVIDENCE

INDUSTRY TAILORED TESTING SERVICES

REFRIGERANT AND REFRIGERANT OIL ANALYSIS

SuperTest can test and analyse refrigerant oil from your system and provide expert review based on the scientific report. SuperTest can also take a sample of the refrigerant in a system and determine its purity or if it has been contaminated by another refrigerant, acid, moisture or air.

NICHE FOOD MICROBIOLOGY

SuperTest has partnered with NFM to provide a variety of microbiological food testing procedures in accordance with Australian Standards. NFM is a NATA accredited lab that provides testing for pathogens, indicator organisms and has available rapid detection methods for both Listeria Spp and Salmonella Spp in food products. If you have concerns regarding your refrigerated products, SuperTest and NFM can create a suitable testing regime.

REFRIGERATED PRODUCT SHELF LIFE TEST

SuperTest has the ability to accurately control a refrigerated space within a 0.5K differential of the set point. We can simulate almost any temperature you require and scientifically measure the results of product temperature abuse and the affects of shelf life of the product in accordance to Australian standards.

SuperTest is in the process of updating its chambers to have the ability to accurately measure Sound Power Level at specific Octave Band frequencies (Hz) Noise Rating (NR) and Sound Pressure Level dB(A).



K VALUE

Testing the amount of heat transferred through leakage into or out of a temperature-controlled space.

THERMAL IMAGERY

Advanced thermal imaging equipment pinpoints heat leakages at various points of any thermal structure.

SuperTest can review and advise where heat barriers are being broken in order to improve insulation failures and refrigeration efficiency.

AIRFLOW

Whether it is measuring airflow of a product, airflow within a chamber or creating airflow for simulation of a moving vehicle, SuperTest has the tools and instruments to measure, log and precisely simulate any situation.

PERFORMANCE

SuperTest can measure refrigeration power, consumption and fuel usage in mobile applications in accordance to standards such as AS4982, AS3711.5, AS2853, AS/NZS3823.1.1 and SAE J639.

PRODUCT AND PACKAGING

SuperTest can determine the ability of foods and other products to maintain temperature in the cold chain across a variety of conditions. We also measure the effects of packaging, wrapping and stacking of specific products to maintain correct temperature in the cold chain.

CALIBRATION OF MONITORING EQUIPMENT

SuperTest utilises high quality Julabo temperature baths used for testing, calibrating and provision of annual certification for thermostats and temperature probes typically used in the cold chain. Annually maintaining your sensors ensures that your system is operating accurately at all times.



Learn more about SuperTest at supercool.com.au/supertest.html or call +61 7 5449 4000

SuperCool Asia Pacific

Phone: +61 7 5549 4000

Technical Support: 1800 628 133

www.supercool.com.au

