

2021 | UK

Advanced 

Product Guide



World class cleaning
chemicals for the
sustained protection
of people, buildings
and equipment.



Evaporator Cleaners

Indoor air quality is key in any building. Our full range of evaporator cleaners and disinfectants are available in various formats, designed to remove all types of common dirt, microbial contaminants, debris and organic growth.



Condenser Cleaners

A well maintained, clean condenser will keep pressure low in the system, protecting the compressor and reducing the risk of leaks. Our full range of powerful cleaners has everything you need to keep the outdoor unit in top condition, which ensures system efficiency.



Universal Cleaners

Environmentally friendly and biodegradable formulations can clean both evaporator and condenser coils effectively.



Cold Storage & Ice Machines

NSF approved and cleverly designed, our range of cold storage and ice machine cleaners can be used in and around food preparation areas and environments. The Engineer can tackle these essential areas with ease and minimum impact to the customer.



Drain Maintenance

An important first step in any routine maintenance program is to clear blockages from the condensate drain.



Specialist Chemicals

For the more specialist jobs, Advanced has you covered. From protective coating for coils, to limescale removers, to the perfect finishing touch.



Accessories, Tools, Oils & Lubricants

Extras to make the job a little easier. Time-saving products for everyday use, suitable for every Engineer's kit.



A leading manufacturer & distributor

Advanced is the recognised world-leader in the manufacture and supply of high quality coil cleaners and service equipment to the air conditioning and refrigeration industry.

Established in 1982, Advanced has built up an outstanding reputation as the provider of world-leading equipment for HVAC/R service engineers. To achieve that position, Advanced has constantly scoured the globe for products that offer exceptional performance.

Our Research and Development Department is constantly pushing the boundaries of innovative, and revolutionary new products such as Jally Strips, FroZone, new and improved SmellyJelly and HydroFoam 2.0.

Passionate, expert support

Delivering high-quality products and sales support is only part of the story. Advanced attributes much of its success to an ability to provide an unusually high level of technical back-up to engineers in the field.

Highly trained and vastly experienced staff are always on hand to give expert advice.

The beating heart of operations

The centre of operations, located in the heart of Basingstoke, offers 5,182 square metres of office and warehouse space, a purpose-built manufacturing unit, a product development and testing facility, meeting and training rooms, together with extensive parking, turning and loading areas.

Part of a much larger picture

Advanced became part of Aspen Pumps Group in 2018, and can now go from strength to strength within the global HVAC/R market.



**ASPEN
PUMPS
GROUP**





Advanced

an ASPEN PUMPS GROUP brand

Joining the Aspen Pumps Group in 2018, Advanced is the recognised market leader in specialist HVAC/R cleaning chemicals. The research and development team at Advanced has created a range of chemical cleaning products designed to give optimum cleaning performance across a variety of applications and environments. Trusted by engineers to do the job right, Advanced has been supplying products to the HVAC/R industry for over 30 years.



Please note: Some products may not be available in all markets. Please speak to your local sales team for more information.

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360° Protection for your A/C & Refrigeration systems

Over 2020, the SARS-CoV-2 virus has impacted on industries around the world.

During this time, Advanced has been working to ensure that certain products meet the EN standards which verify that these products could effectively kill the virus during the cleaning process. This has now been achieved on the below products and they now meet **EN 14476:2013 + A2 2019**, which states that they can kill all 7 of the known human coronaviruses.

Human Coronaviruses:

1. **229E** (alpha coronavirus)
2. **NL63** (alpha coronavirus)
3. **OC43** (beta coronavirus)
4. **HKU1** (beta coronavirus)
5. **MERS-CoV** (the beta coronavirus that causes Middle East Respiratory Syndrome, or MERS)
6. **SARS-CoV** (the beta coronavirus that causes severe acute respiratory syndrome, or SARS)
7. **SARS-CoV-2** (the novel coronavirus that causes coronavirus disease 2019, or COVID-19)



Cleaning chemicals get right throughout the A/C unit, making it the most effective method for **deep cleaning**.

At the point of contact, these products kill the SARS-CoV-2 virus (which leads to the COVID-19 disease).



BS/EN Number	Description (Independent laboratory test - mgsLABORATORIES)	Products
EN1040	<ul style="list-style-type: none"> Phase 1 of a Quantitative suspension test. Tested for the evaluation of <i>basic bactericidal</i> activity of chemical disinfectants. Conducted in a test tube, without regard to specific intentions of use. 	Condenside® RTU ECD® ECD GEL EasyCare®
EN1275	<ul style="list-style-type: none"> Phase 1 of a Quantitative suspension test. Tested against <i>basic fungicidal & basic yeasticidal</i> activity of chemical disinfectants. Conducted in a test tube, without regard to specific intentions of use. 	Condenside® RTU ECD® ECD GEL EasyCare®
EN1276	<ul style="list-style-type: none"> Phase 2 step 1 of a Quantitative suspension test. Tested for the evaluation of <i>bactericidal</i> activity of chemical disinfectants. Conducted by simulating practical conditions appropriate to its intended use. 	Condenside® RTU ECD® ECD GEL CoolSafe®
EN1650	<ul style="list-style-type: none"> Phase 2 step 1 of a Quantitative suspension test. Tested for the evaluation of <i>fungicidal or yeasticidal</i> activity of chemical disinfectants used in food, industrial, domestic and institutional areas. Conducted by simulating practical conditions appropriate to its intended use. 	Condenside® RTU ECD® CoolSafe®
EN13727	<ul style="list-style-type: none"> Phase 2 step 1 of a Quantitative suspension test. Tested for the evaluation of <i>bactericidal</i> activity of chemical disinfectants. Conducted by simulating practical conditions appropriate to its intended use. 	Condenside® RTU ECD®
EN14476 *(2013+A2:2019 covers all enveloped viruses including coronaviruses)	(Microbiological Solutions Limited) <ul style="list-style-type: none"> Phase 2 step 1 of a Quantitative suspension test. Tested for the evaluation of <i>virucidal</i> activity of chemical disinfectants. Conducted by simulating practical conditions appropriate to its intended use. 	Condenside® RTU ECD® ECD GEL EasyCare® CoolSafe®
EN13697	<ul style="list-style-type: none"> Phase 2 step 2 of a Quantitative non-porous surface test (laboratory test, often using carriers or living tissues with dried-on micro-organisms). Tested for the evaluation of <i>bactericidal</i> and/or <i>fungicidal</i> activity of chemical disinfectants used in food, industrial, domestic and institutional areas. Conducted by simulating practical conditions appropriate to its intended use. 	Condenside® RTU ECD®

*A pass against EN14476:2013 + A2 2019 to either limited spectrum virucidal activity or full virucidal activity allows a claim against SARS-CoV-2 virus (Which Advanced/APG have attained).

Advanced Product Selector

		Suitable Application											NSF		
		Air Conditioning	Refrigeration	Indoor	Outdoor	Heavy Duty	Routine Maintenance	Coils & Pipework	Drain & Condensate	Fascia, Case & Cleaning	Fan & Filter	Unit Cover	Ice Machines	Cold Storage	NSF
Evaporator	AdvancedGel ECD	•		•		•		•							
	CondenCide [®]	•		•		•		•							✓
	EasyCare [®]	•		•		•		•							
	EasyFresh™	•		•		•	•			•					
	OdourGuard	•		•			•								
	RTU [®] EC	•		•			•	•							
	RTU ECD [®]	•		•		•		•							
Condenser	AdvancedGel CC	•	•		•	•		•							✓
	HydroFoam [®] 2.0	•	•		•	•		•							
	SuperClean [®]	•	•		•	•		•							
	EasyFoam [®]	•	•		•	•		•							
	GreaseGobbler™	•	•		•	•		•							
	RTU CC [®]	•	•		•	•		•							
Universal	AdvancedGel UC	•	•	•	•		•	•							✓
	Vertex [®]	•	•	•	•		•	•							✓
	EnviroCoil [®]	•	•	•	•		•	•							✓
	EasyClean [®]	•		•	•		•	•							
Drain	AdvancedGel DU	•		•		•	•		•						
	DrainKleen [®]	•		•		•	•		•						
	DrainKleen [®] one shot	•		•		•	•		•						
	StayClean [®] Mini Tablets	•		•		•			•						
	StayClean™ Strips														✓
Refrigeration & Ice Machines	AdvancedGel IMC		•	•								•			✓
	CoolSafe [®]		•	•				•							✓
	DrainSafe [®]		•	•					•						✓
	FroZone [®]		•	•									•		✓
	Ice'n'Clean [®] one shot		•	•								•			✓
	Ice'n'Clean [®]		•	•								•			✓
	Jally [®] Strips		•	•					•						✓

		Suitable Application										NSF				
		Air Conditioning	Refrigeration	Indoor	Outdoor	Heavy Duty	Routine Maintenance	Coils & Pipework	Drain & Condensate	Fascia, Case & Cleaning	Fan & Filter		Unit Cover	Ice Machines	Cold Storage	
Specialist Chemicals	Advanced Premium Oil															
	All-White ⁺	•		•		•	•		•							
	EasyCoat™	•	•		•		•	•								
	EasyFind ⁺	•	•	•	•		•	•								
	EasyFinish ⁺	•	•	•	•	•	•		•		•					
	EndoFlush ⁺	•	•	•	•	•		•								
	Hidrox™	•	•	•	•	•		•								
	ProTect™	•	•		•		•	•								
	PyroCool™															
	RTU BU ⁺	•	•	•	•		•	•								
	ScalePro ⁺	•	•		•	•	•	•								
SmellyJelly ⁺	•		•		•	•				•						
Accessories	AC-Pro ⁺ f-gas system labels	•	•				•									
	AC-Pro ⁺ report sheets	•	•				•									
	TieTite ⁺	•		•			•									
	HookTite ⁺	•		•			•									
	HydroSprayer ⁺	•	•	•	•	•	•	•	•	•						
	HydroSprayer -Elite ⁺	•	•	•	•	•	•	•	•	•	•					
	Mimic (remote controller)	•		•												
	EasyWipes™	•	•	•	•	•	•		•			•				
FUCHS Reniso Oils		•	•		•	•										
Acid Test	QwikCheck ⁺	•	•				•									
	QwikShot ⁺	•	•				•									
	QwikInjector ⁺	•	•				•									
Brazing	Turbo Set 1000	•	•				•	•								
Tools	Flushing pump	•	•				•	•								
	Maxymum Nitrogen Regulator	•	•				•	•								

AdvancedGel



We're mixing it up!

Unrivalled cleaning performance - in the most concentrated pack on the market.

The AdvancedGel range covers the main HVAC/R applications - evaporators, condensers, drains and ice machines can all be cleaned and cleared using the powerful gel formulation. Diluting AdvancedGel couldn't be easier - one part of the ultra-concentrated formula is mixed with 15 parts of water - so a single 490ml pouch* contains enough to make 8 litres of finished product. (*AdvancedGel IMC is a un-dilutable, single use pack).

AdvancedGel ECD EVAPORATOR CLEANER & DISINFECTANT



- Kills 99.9% of odour producing bacteria
- Powerful cleaning action will remove bacteria, dirt, slime and mould
- Improves energy efficiency of unit
- Makes 8 litres

AdvancedGel UC UNIVERSAL COIL CLEANER



Nonfood Compounds Program Listed

- Powerful & effective cleaning against common dirt, including dust, lint & grease
- Biodegradable and environmentally friendly
- Improves energy efficiency of unit
- Makes 8 litres

AdvancedGel CC CONDENSER CLEANER



Nonfood Compounds Program Listed

- Cleans even the most stubborn baked-on deposits
- Leaves coils clean and visibly brighter
- Safe to use on aluminium or copper coils
- Makes 8 litres

AdvancedGel DU CONDENSATE DRAIN UNBLOCKER

- The heavy-duty formula will clear organic and inorganic blockages
- Heavier than water, it will sink and find the blockage
- Safe to use with condensate pumps
- Makes 8 litres

AdvancedGel IMC ICE MACHINE CLEANER



Nonfood Compounds Program Listed

- Clears heavy limescale and slime deposits
- Nickel and aluminium safe - suitable for all ice machines
- Colour indicator ensures product is completely flushed
- Cleans 1 unit

Perfect for use with the HydroSprayer 8 litre.



Part No.	Product	Qty	Size
S010458GB	AdvancedGel ECD*	5	490ml
S010457GB	AdvancedGel CC	5	490ml
S010459GB	AdvancedGel UC**	5	490ml
S010461GB	AdvancedGel DU	5	490ml
S010460GB	AdvancedGel IMC	5	490ml

* Complies with EN1040, EN1275, EN1276 & EN14476.

**Hazardous transport. Complies with BS/EN 1276 & BS/EN 1040.

RECOMMENDED CLEANING PROCESS

3-step A/C maintenance

Clear. Clean. Protect.



Over time, A/C units work hard and eventually organic matter will build up, causing systems to become blocked. This has a direct effect on system performance, causing bad odours and making systems more expensive to run, possibly resulting in unit failure. This is why regular planned maintenance is so important.

Deep cleaning that gets to the heart of the problem

Advanced products are specifically formulated for A/C equipment and the tough environmental demands they face daily.

- Inorganics (water spots, lime scale, rust, corrosion, rocks/asphalt, fuel emissions).
- Organics (fats, body oils, bacteria, mould, slime and yeast).
- Keeping fresh: Our range of smell busting & finishing products such as SmellyJelly, EasyFresh, EasyFinish and EasyWipes will keep your units in tip top condition.

Benefits of regular A/C maintenance

- Improved energy efficiency, cooling duties and reduced CO2 emissions.
- Drains kept clear and smelly microbial growth destroyed.
- Kills and removes 99.9% bacteria, fungi, spores & viruses.
- Maintains good indoor air quality.
- Extends life of the unit.
- Clean units reduce the risk of frozen evaporators and refrigerant leaks.

For more information on our recommended process for keeping refrigeration systems clear from slime, go to our new website at:

www.aspenpumps.com/en-gb/ac-3-step-cleaning

Alternatively, scan your smart phone camera over the QR code below to go direct to the 3 Step Process webpage.



Evaporator Cleaners & Odour Neutralisers



Indoor air quality is key in any building. Our full range of evaporator cleaners & disinfectants are available in various formats, designed to remove all types of common dirt, microbial contaminants, debris and organic growth.

CondensCide®

ALKALINE EVAPORATOR CLEANER & DISINFECTANT

- Ready to use
- Aerosol
- Concentrate
- Condensate pump safe

- Kills 99.9% of bacteria in 60 seconds or less
- Helps to improve energy efficiency and indoor air quality
- Makes 35 litres*

Part No.	Product	Qty	Size
S010166GB	CondensCide	4	5L
S010165GB	CondensCide	1	20L

Hazardous transport. Complies with EN13727, EN1276, EN1650, EN13697 & EN14476.
*Dilution: Dilute 1 part CondensCide® with 6 parts water.



EasyCare®

EVAPORATOR CLEANER & DISINFECTANT

- Ready to use
- Aerosol
- Concentrate
- Condensate pump safe

- Kills bacteria and fungi
- Improves indoor air quality
- Removes grease, nicotine and grime

Part No.	Product	Qty	Size
S010127GB	EasyCare	12	600ml

Hazardous transport. Complies with EN1040, EN1275 & EN14476.



RTU ECD®

EVAPORATOR CLEANER & DISINFECTANT



Ready to use



Aerosol



Concentrate



Condensate pump safe

- **RTU ECD** - Kills 99.9% of bacteria in 60 seconds or less
- Convenient ready-to-use format
- Use as part of a regular maintenance programme

Part No.	Product	Qty	Size
S010196GB	RTU ECD	8	1L
S010192GB	RTU ECD	4	5L
S010211GB	RTU ECD	1	20L

RTU ECD - Complies with EN13727, EN1276, EN1650, EN13697 & EN14476.



Advanced

EVAPORATOR CLEANERS



RTU EC®

EVAPORATOR CLEANER



Ready to use



Condensate pump safe

- **RTU EC** - Non biocidal cleaner

Part No.	Product	Qty	Size
S010176GB	RTU EC	8	1L
S010193GB	RTU EC	4	5L
S010212GB	RTU EC	1	20L



OdourGuard

ODOUR ELIMINATOR FOR A/C SYSTEMS



Ready to use



Aerosol



Concentrate



Condensate pump safe

- Continuous guard against odour release to ensure 360° protection for filters, AHUs and duct work
- Long lasting, subtle and naturally clean fragrance
- Compliments anti-viral protectors e.g. Advanced CondenCide and RTU ECD (ISO 18184:2019)

Part No.	Product	Qty	Size
S090070R1	OdourGuard	8	1L



EasyFresh™

ODOUR NEUTRALISER FOR A/C SYSTEMS



Ready to use



Aerosol



Concentrate



Condensate pump safe

- Specifically designed for air conditioning units
- Eliminates odours
- Produces a long-lasting fresh scent

Part No.	Product	Qty	Size
S090049GB	EasyFresh	12	400ml

Hazardous transport.



Condenser Cleaners



A well maintained, clean condenser will keep pressure low in the system, protecting the compressor and reducing the risk of leaks. Our full range of powerful cleaners has everything you need to keep the outdoor unit in top condition, which ensures system efficiency.

SuperClean™

HEAVY-DUTY CONDENSER CLEANER

- Ready to use
- Aerosol
- Concentrate
- Condensate pump safe

- Powerful foaming action that brightens the coil and inhibits future oxidation
- Just as powerful as an acid-based cleaner, but safer to use
- Strongest coil cleaner in the market, with a unique formulation
- Makes 25 litres



Part No.	Product	Qty	Size
S010171GB	SuperClean	4	5L
S010110GB	SuperClean	1	20L

*Dilution: 3:1
Hazardous transport.

HydroFoam® 2.0

HEAVY-DUTY CONDENSER CLEANER & BRIGHTENER

- Ready to use
- Aerosol
- Concentrate
- Condensate pump safe

- New coil brightening formula
- Non-toxic and biodegradable
- No degradation of aluminium or copper
- Cleans even the most stubborn baked-on dirt
- Makes 35 litres*



Part No.	Product	Qty	Size
S010164GB	HydroFoam 2.0	4	5L
S010417GB	HydroFoam 2.0	1	20L

*Dilution: Regular maintenance 1:6 / Heavy contamination 1:3.



Ready to use



Aerosol



Concentrate



Condensate pump safe

- Powerful formulation makes it ideal for removing stubborn dirt from problem coils
- Perfect for deep, multi-row condensers
- Part of our Easy range of products

Part No.	Product	Qty	Size
S010132GB	EasyFoam	12	600ml

Hazardous transport.



GreaseGobbler™

SOLVENT-BASED CONDENSER CLEANER



Ready to use



Aerosol



Concentrate



Condensate pump safe

- Dissolves grease on contact
- Quick drying
- Non-conductive and non-flammable

Part No.	Product	Qty	Size
S010133GB	GreaseGobbler	20	400ml

Hazardous transport.



RTU CC®

CONDENSER CLEANER



Ready to use



Aerosol



Concentrate



Condensate pump safe

- Convenient non foaming ready-to-use cleaner
- Improves system efficiency
- Great as part of a regular maintenance programme

Part No.	Product	Qty	Size
S010195GB	RTU CC	8	1L
S010191GB	RTU CC	4	5L
S010210GB	RTU CC	1	20L



Universal Cleaners



A range of convenient, dynamic and easy to use products as part of any routine maintenance program. Environmentally friendly & biodegradable formulations can clean both Evaporator & Condenser coils efficiently and effectively.

VerteX[®]

NEUTRAL pH 7 CONDENSER & EVAPORATOR CLEANER

- Ready to use
- Aerosol
- Concentrate
- Condensate pump safe

- Non corrosive - neutral pH 7 adaptive cleaner
- Ideal for microchannel and coils with protective coatings
- Neutralises all unpleasant malodour
- Makes 25-45 litres*

Part No.	Product	Qty	Size
S010389GB	VerteX	4	5L
S010412GB	VerteX	1	20L

*1:8 - Evaporators, 1:4 - Condensers.







VerteX[®] is a full-spectrum cleaner. Its unique formulation allows it to change its own pH balance to either acid or alkali to better combat the soils it comes into contact with. This adaptive dimension makes it perfect for use in almost any maintenance scenario – both indoors or outdoors.

Making fast work of dirt on coils, VerteX[®] quickly penetrates through rust, scale, grease and organic debris - loosening the deposits - allowing them to be easily rinsed clean.

VerteX[®] will not damage or etch the coil surface, making it the ideal product for modern and lightly coated alloy coils.

No harmful or volatile by-products are produced as a result of using VerteX[®] and its ability to neutralise all unpleasant coil odour from evaporators means it can be used within normal business hours.

EnviroCoil® UNIVERSAL COIL CLEANER

-  Ready to use
-  Aerosol
-  Concentrate
-  Condensate pump safe





- Biodegradable, environmentally friendly and mild formulation
- Perfect for most maintenance, indoors or outdoors
- 5L: Makes 25-45 litres / 20L: Makes 100-180 litres*

Part No.	Product	Qty	Size
S010167GB	EnviroCoil	4	5L
S010312GB	EnviroCoil	1	20L

*1:8 - Evaporators, 1:4 - Condensers.



EasyClean® UNIVERSAL COIL CLEANER

-  Ready to use
-  Aerosol
-  Concentrate
-  Condensate pump safe

- Suitable for use on both air cooled evaporators and condensers
- Convenient, high powered aerosol with a safe formulation
- Attacks only the dirt, not the coil

Part No.	Product	Qty	Size
S010128GB	EasyClean	12	600ml

Hazardous transport.



Drain Maintenance



An important first step in any routine maintenance program is to clear clogs and blockages from the condensate drain and protect it from any future organic growth. Our range of drain maintenance products has everything you need.

DrainKleen®

CONDENSATE DRAIN UNBLOCKER



Ready to use

- Clears organic blockages
- Heavier than water - sinks to reach blockage site



Aerosol



Concentrate



Condensate pump safe

Part No.	Product	Qty	Size
S010188GB	DrainKleen	4	5L

Hazardous transport.



DrainKleen® one shot

CONDENSATE DRAIN CLEANER & UNBLOCKER



Ready to use

- Clears common blockages
- User friendly design for hard to reach areas



Aerosol



Concentrate



Condensate pump safe

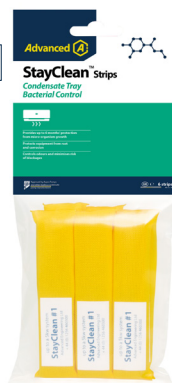
Part No.	Product	Qty	Size
S010106GB	DrainKleen one shot	12	250ml





Hazardous transport.



StayClean™ Strips

CONDENSATE TRAY BACTERIAL CONTROL



-  Ready to use
-  Aerosol
-  Concentrate
-  Condensate pump safe





- Prevents micro-organism growth in condensate trays
- Controls odours
- Minimises risk of blockages
- Contains biocide
- Up to 6 months protection

Part No.	Product	Qty	Size
S010307GB	StayClean Strips (small)	6	Size 1
S010310GB	StayClean Strips (large)	6	Size 2

StayClean™ Mini Tablets

CONDENSATE TRAY BACTERIAL CONTROL



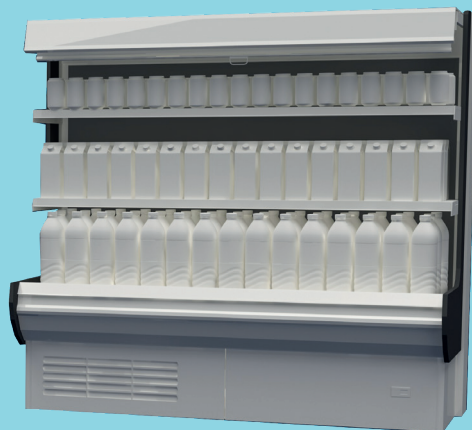
-  Ready to use
-  Aerosol
-  Concentrate
-  Condensate pump safe

- Controls odours
- Reduces sludge build-up
- Minimises risk of blockages
- Up to 8 weeks protection

Part No.	Product	Qty	Size
S010105GB	StayClean Mini Tablets	20 tablets	1 pack
S010111GB	StayClean Mini Tablets	540 tablets	1kg

Refrigeration & Ice Machines

NSF approved and cleverly designed, our range of cold storage and ice machine cleaners can be used in and around food preparation areas and environments. The engineer can tackle these essential areas with ease and minimum impact to the customer.



Jally® Strips

CONDENSATE TRAY MICROBIAL CONTROL

- Ready to use
- Aerosol
- Concentrate
- Condensate pump safe

- Slime dispersing action for refrigeration systems
- Smart release - extra biocidal power when needed
- 12 months protection
- Safe to use in food preparation areas

Part No.	Product	Qty	Size
S010386GB	Jally Strips	5	50 strips
S010370GB	Jally Strips	1	50 strips
S010371GB	Jally Strips	1	6 strips

Hazardous transport.



NSF International – Nonfood Compounds Registration Program

When you choose a product certified by NSF, it is letting you know the company complies with strict standards and procedures imposed by NSF. From extensive product testing and material analyses to unannounced plant inspections, every aspect of a product's development is thoroughly evaluated before it can earn an NSF certification.

More importantly, NSF certification is not a one-time event, but involves





regular on-site inspections of manufacturing facilities and regular re-testing of products to ensure that they continue to meet the same high standards required to maintain certification over time. If for any reason a product fails to meet one or more certification criteria, NSF will take enforcement actions to protect you, including product recall, public notification or de-certification.

Products that earn NSF certification are said to be "NSF certified" or "NSF listed" and display the applicable NSF certification mark to show that

they have been tested by one of today's most respected independent product testing organisations.

Products eligible for NSF Registration include all compounds used in and around food establishments (nonfood compounds), such as disinfectants and lubricants, and those used for pre-processing of food substances, such as fruits/vegetable washing agents. NSF Registration assures inspection officials and end users that formulation and labels meet appropriate food safety regulations.

DrainSafe® REFRIGERATION DRAIN UNBLOCKER

-  Ready to use
-  Aerosol
-  Concentrate
-  Condensate pump safe





- Clears organic blockages
- Registered by NSF – Suitable for use in food storage & preparation areas

Part No.	Product	Qty	Size
S010257GB	DrainSafe	8	500ml
S010264GB	DrainSafe	4	5L

Hazardous transport.



Ice'n'Clean® ICE MACHINE CLEANER

-  Ready to use
-  Aerosol
-  Concentrate
-  Condensate pump safe




- Clears heavy limescale and slime deposits
- Nickel and aluminium safe - suitable for all ice machines
- Colour indicator ensures product is completely flushed
- New odourless formula

Part No.	Product	Qty	Size
S010209GB	Ice 'n' Clean	12	1L
S010169GB	Ice 'n' Clean	4	5L
S010342GB	Ice 'n' Clean	1	20L

Dilution: Dilute 1 litre Ice 'n' Clean with 15 litres water.



Ice'n'Clean® one shot ICE MACHINE CLEANER

-  Ready to use
-  Aerosol
-  Concentrate
-  Condensate pump safe

- 250ml 'one shot' makes 10 litres of product, enough for one ice machine
- Suitable for use with all types of ice machines

Part No.	Product	Qty	Size
S010148GB	Ice 'n' Clean one shot	12	250 ml

Hazardous transport.



CoolSafe®

REFRIGERATION COIL CLEANER & DISINFECTANT



Ready to use



Aerosol



Concentrate



Condensate pump safe

- Registered by NSF - Safe for use in food storage and preparation areas
- Removes slime, mould and foodstuffs
- Improves equipment efficiency
- User and environmentally friendly
- 5L: Makes 30 litres

Part No.	Product	Qty	Size
S010234GB	CoolSafe RTU	8	1L
S010233GB	CoolSafe RTU	4	5L
S010390GB	CoolSafe	12	1L
S010232GB	CoolSafe	4	5L

Hazardous transport. Complies with EN13727, EN1276, EN1650, EN13697 & EN14476.



Nonfood Compounds
Program Listed



FroZone®

FLOOR AND WALL CLEANER FOR COLD STORAGE



Ready to use



Aerosol



Concentrate



Condensate pump safe

- Effective floor and wall cleaning quality down to -25°C, eliminating freezer shut down
- Easily cuts through dirt and fat deposits reducing cleaning time
- Non-metal corrosive formula making it safe to use on aluminium and stainless steel surfaces

Part No.	Product	Qty	Size
S010406GB	FroZone	4	5L



Nonfood Compounds
Program Listed



REFRIGERATION MAINTENANCE SOLUTIONS

3 Step Refrigerator Life Support Clear. Clean. Protect.



Refrigeration units are a prime target for slime build up if not maintained regularly. Without thorough cleaning, this slime can produce odour and turn into solid formations which can block the system. Not something your customer would want near their produce! This is why regular planned maintenance is so important.

Advanced products are specifically formulated for refrigeration units and the tough environmental demands they face daily.

Clear: Dissolves any contamination in the drain line, to create clear and clean condensate run offs.

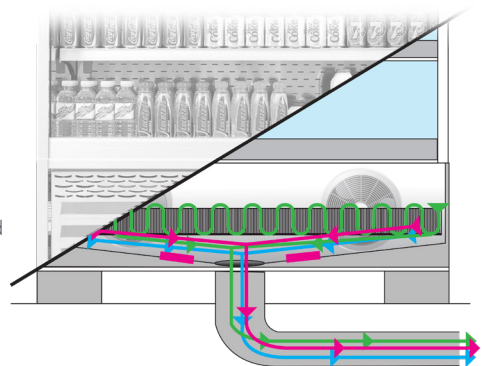
Clean: Sprayed over and around the coils will loosen dirt and grime - cleaning while disinfecting!

Protect: Condensate tray treatment providing up to twelve months' protection from slime build up caused by bacteria, fungi, algae and other micro-organisms.

For more information on our recommended process for keeping refrigeration systems clear from slime, go to our new website at:

www.aspenpumps.com/en-gb/refrigeration-3-step-cleaning

Alternatively, scan your smart phone camera over the QR code below to go direct to the 3 Step Process webpage.



Specialist Chemicals



For the more specialist jobs, Advanced has you covered. From protective coating for coils, to limescale removers, to the perfect finishing touch; find it all here.

SmellyJelly®

FRAGRANCING GEL

- Mini size: suitable for small fan coil units
- Size 1: suitable for large fan coil and cassette units

Part No.	Product	Qty	Size
S090017	SmellyJelly Citrus	20 cards	Mini
S090018	SmellyJelly Floral	20 cards	Mini
S090050GB	SmellyJelly Apple	20 cards	Mini
S090020	SmellyJelly Morning	20 cards	Mini
S090021	SmellyJelly Mountain	20 cards	Mini
S090057GB	SmellyJelly Orange	20 cards	Mini
S090054 MWE	SmellyJelly Mixed	20 cards	Mini

Part No.	Product	Qty	Size
S090002	SmellyJelly Citrus	20 cards	Size 1
S090003	SmellyJelly Floral	20 cards	Size 1
S090051GB	SmellyJelly Apple	20 cards	Size 1
S090006	SmellyJelly Morning	20 cards	Size 1
S090007	SmellyJelly Mountain	20 cards	Size 1
S090058GB	SmellyJelly Orange	20 cards	Size 1
S090008	SmellyJelly Mixed	20 cards	Size 1



EasyFinish[®]

FASCIA & CASE CLEANER

- Ready to use
- Aerosol
- Concentrate
- Condensate pump safe

- Suitable for most air conditioning units
- Safely removes finger marks etc. from plastic and metal casework
- Easily removes stubborn nicotine, grease & general grime
- Part of our Easy range of products

Part No.	Product	Qty	Size
S010131GB	EasyFinish	12	600ml

Hazardous transport.



EasyFind[®]

BUBBLE-UP LEAK DETECTOR

- Ready to use
- Aerosol
- Concentrate
- Condensate pump safe

- Specifically designed for refrigerant leaks
- Produces long-lasting bubbles
- Clings to all surfaces

Part No.	Product	Qty	Size
S010350GB	EasyFind	12	400ml

Hazardous transport.



RTU BU[®]

BUBBLE-UP LEAK DETECTOR

- Ready to use
- Aerosol
- Concentrate
- Condensate pump safe

- Specifically designed for refrigerant leaks
- Produces long-lasting bubbles
- Clings to all surfaces

Part No.	Product	Qty	Size
S010173GB	RTU BU	8	1L



EndoFlush®

INTERNAL COIL & SYSTEM CLEANER



Ready to use



Aerosol



Concentrate



Condensate pump safe

- For use after burnouts, before component changes or when retrofitting
- Will flush away sludge, carbon residues, acids, oils and water
- Low viscosity – flows easily

Part No.	Product	Qty	Size
S010190GB	EndoFlush	4	5L
S010004GB	EndoFlush	1	20L
S010124GB	EndoFlush	1	205L



EasyCoat™

ACRYLIC PROTECTIVE COATING FOR COILS



Ready to use



Aerosol



Concentrate



Condensate pump safe

- Effective corrosion protection for coils
- Indicator dye helps ensure complete coverage
- Rapid drying

Part No.	Product	Qty	Size
S010129GB	EasyCoat	12	600ml

Hazardous transport.



ProTect™

ACRYLIC COATING FOR COILS



Ready to use



Aerosol



Concentrate



Condensate pump safe

- Economical protective coating for cooling coils
- Rapid drying
- Water & oil resistant formula

Part No.	Product	Qty	Size
S010033GB	ProTect	1	5L





Hazardous transport.



ScalePro®

LIMESCALE REMOVER FOR ADIABATIC CONDENSERS



-  Ready to use
-  Aerosol
-  Concentrate
-  Condensate pump safe




- Rapidly removes scale from condenser coils
- Restores system efficiency
- Safe on aluminium coils
- Perfect for adiabatic coolers

Part No.	Product	Qty	Size
S010147GB	ScalePro	4	5L
S010336GB	ScalePro	1	20L

HidroX™

INTERNAL-PIPEWORK LIMESCALE REMOVER



-  Ready to use
-  Aerosol
-  Concentrate
-  Condensate pump safe





- For cooling towers, pipework, condensers, water heaters and cast-iron indoor boilers
- Contains inhibitors to protect metal surfaces
- Colour indicator to ensure continued protection
- 1L: Makes 34 litres

Part No.	Product	Qty	Size
S010208GB	HidroX	12	1L
S010168GB	HidroX	4	5L
S010213GB	HidroX	1	20L

Hazardous transport.

All-White®

CEILING TILE RESTORER

-  Ready to use
-  Aerosol
-  Concentrate
-  Condensate pump safe

- Restores tile colour following condensate/oil leakage
- Covers nearly all types of stains
- Saves costly tile replacement

Part No.	Product	Qty	Size
S010157GB	All-White	12	400ml

Hazardous transport.



PyroCool™ FLAME RETARDANT GEL



Ready to use



Aerosol



Concentrate



Condensate
pump safe

- Protects all surfaces and parts close to brazing, soldering and welding
- Reduces risk of fire by protecting surfaces and dissipating heat
- Suitable for copper, steel and aluminium pipework

Part No.	Product	Qty	Size
S050020GB	PyroCool	12	250ml
S050021GB	PyroCool	8	500ml
S050004GB	PyroCool	8	1L



Advanced Premium Oil VACUUM PUMP OIL

- Designed for vacuum pumps
- High thermal stability
- Low moisture content

Part No.	Product	Qty	Size
S145023GB	Advanced Vacuum Pump Oil	12	1L



For time saving tools, **think JAVAC.**



JAVAC

JAVAC has a proud heritage of supplying quality tools to the HVAC/R industry. For over 50 years our brand has stood for quality, reliability and service – making JAVAC one of the UK's most trusted names in HVAC/R service equipment.

As part of the Aspen Pumps Group we are now able to bring JAVAC to European customers for the first time and like all Aspen Pumps Group brands, our focus is on products which make the installer's life easier.

an ASPEN PUMPS GROUP brand

Accessories, Tools, Oils & Lubricants

Extras to make the job a little easier. Time-saving products for everyday use, suitable for every Engineers kit.

HydroSprayer-Elite® BATTERY-POWERED ELECTRIC SPRAYER

- 15L tank capacity which is packaged as a back pack with supportive straps
- A 12V long-life rechargeable battery
- Powerful automatic pump that produces 60 psi at the squeeze of a trigger
- Use with Advanced concentrated and ready-mixed coil cleaner chemicals, both indoors and outdoors

Part No.	Product	Qty	Size
S010450GB	HydroSprayer-Elite	1	15L

The HydroSprayer-Elite is NOT suitable for use with ScalePro as the hydrochloric acid will dissolve the soft PVC parts, such as gaskets and the pump membrane.



HydroSprayer® CLEANER APPLICATOR

- Heavy duty low-pressure sprayer
- Suitable for use with all Advanced coil cleaner concentrates
- Full range of spares available

Part No.	Product	Qty	Size
S010107GB	HydroSprayer	1	8L
S010138	Replacement Seal Kit	1	-
S010139	Pump Assembly	1	-
S010140	Lance Assembly (includes nozzle)	1	-
S010141	Handle Assembly	1	-
S010142	Pressure Relief Valve	1	-



Mimic® UNIVERSAL REMOTE CONTROLLER

- Fast and easy to program
- Controls all common functions
- Programmable timer allows for more economical AC operation
- Only one remote controller for multiple units

Part No.	Product	Qty
S080019GB	Mimic	1



EasyWipes™ PROFESSIONAL GRADE HAND WIPES

- Cleans surfaces quickly and effectively
- Safe for use on hands
- Ideal for a quick clean-up after a job

Part No.	Product	Qty	Size
S010151GB	EasyWipes	20 packs	50 wipes/pack
S010365GB	EasyWipes (box)	1 box	8 packs



HookTite®

CLEANING COVER FOR CEILING AIR CONDITIONERS

- Ideal for routine maintenance
- Protects walls, carpets and surrounding equipment whilst cleaning
- Perfect for use with Advanced coil cleaners
- Access holes and a drain tube to ensure splash-free cleaning
- Time-saving - no dust sheets and no cleaning up afterwards



Part No.	Product	Qty	Size
S010122GB	HookTite	5	1000 x 1000mm

TieTite®

CLEANING COVER FOR WALL-MOUNTED INDOOR UNITS

- Ideal for use with high wall air conditioning units
- Protects walls, carpets and surrounding equipment whilst cleaning
- Provides protection to the user

Part No.	Product	Qty	Size
S010424GB	TieTite 1	Pack of 50 & Bucket	930 x 450mm
S010426GB	TieTite 2	Pack of 50 & Bucket	1100 x 450mm
S010119GB	TieTite Size 1	Pack of 5	930 x 450mm
S010423GB	TieTite Size 1	Pack of 10	930 x 450mm
S010120GB	TieTite Size 2	Pack of 5	1100 x 450mm
S010425GB	TieTite Size 2	Pack of 10	1100 x 450mm

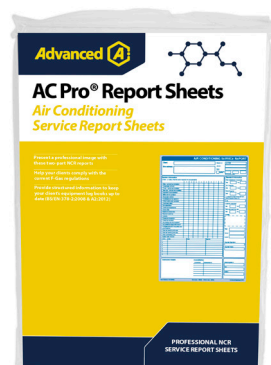


AC-Pro® REPORT SHEETS

- Present a professional image with these two part NCR reports
- Help your clients comply with the current F-Gas regulations
- Provide structured information to keep your client's equipment log books up to date (BS/EN 378-2:2000)

Part No.	Product	Qty	Size
S080349GB	AC-Pro Air Con Service Report	1	50 sheets
S080350GB	AC-Pro Breakdown Report	1	50 sheets
S080351GB	AC-Pro Commissioning Report	1	50 sheets
S080352GB	AC-Pro Installation Report	1	50 sheets

Part No.	Product	Qty	Size
S080353GB	AC-Pro Parts Request Report	1	50 sheets
S080354GB	AC-Pro Refrigerant Tracking Report	1	50 sheets
S080355GB	AC-Pro Refrigeration Service Report	1	50 sheets
S080356GB	AC-Pro Pipe Strength/tightness	1	50 sheets



AC-Pro® F-GAS SYSTEM LABELS

- Record the total system refrigerant charge
- Keep a refrigerant leak check record
- Water & weather resistant
- Pack contains:
30 x Adhesive stickers (140 x 105mm)
1 x Marker Pen

Part No.	Product	Qty
S080270GB	AC-Pro F-Gas	5



Flushing pump

- For use with EndoFlush
- Pump spare parts available

Part No.	Product	Qty	Size
S010005	Flushing Pump	1	110V
S010006	Flushing Pump	1	240V
S070174	Replacement gauge	1	-
S010090	Service kit	1	-

Bar/PSI	RPM/UPM	Flow Rate		Performance	
		L/min	GPM	HP	kW
5 / 72	1300	11,2	3,0	0,2	0,2
	1350	11,5	3,0	0,2	0,2
	1400	11,8	3,1	0,2	0,2
	1450	12,1	3,2	0,2	0,2



**USE WITH
EndoFlush**

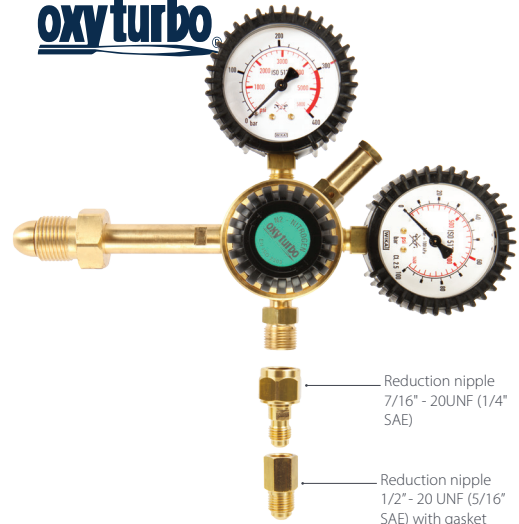


Maxymum Nitrogen Regulator

- Supplied with durable 63mm metal gauges, with protective boots
- Central section machined from a solid brass bar, for improved rigidity and strength
- ISO 5171 compliant gauges designed to be used with compressed gas systems up to 30 MPa (300 bar)
- Maximum inlet pressure of 300 bar, with a pressure relief valve for additional safety

Part No.	Product	Qty
S100422GB	Maxymum High Pressure Regulator	1

oxyturbo



Reduction nipple
7/16" - 20UNF (1/4" SAE)

Reduction nipple
1/2" - 20 UNF (5/16" SAE) with gasket

Technical Information

Gas	Nitrogen	Argon
Colour	Black	Black
ID	N	N
P1 bar	300	300
P2 bar (outlet pressure)	60	60
Q1 m ³ /h (delivery flow)	150	150

FUCHS RENISO TRITON SE/SEZ

SYNTHETIC REFRIGERATION OILS

- Special synthetic polyolester
- Excellent solubility with HFC and FC refrigerants
- Good viscosity-temperature behaviour
- Good compatibility with elastomers and materials normally used in refrigeration circuits

Part No.	Product	Qty	Size
S140006	FUCHS RENISO Triton SEZ 22	1	5L
S140106	FUCHS RENISO Triton SEZ 32	1	5L
S140202	FUCHS RENISO Triton SE 55	1	1L
S140206	FUCHS RENISO Triton SE 55	1	5L
S140306	FUCHS RENISO Triton SEZ 68	1	5L
S140002	FUCHS RENISO Triton SEZ 80	1	1L
S145027	FUCHS RENISO Triton SEZ 100	1	5L
S140506	FUCHS RENISO Triton SE 170	1	5L
S140511	FUCHS RENISO Triton SE 170	1	10L

Some product lines are made to order (4 weeks lead time). Please check with your local sales representative for further information.



FUCHS RENISO S/SP

FULLY SYNTHETIC, ALKYL BENZENE-BASED REFRIGERATION OILS

- Very high thermal stability
- Excellent ageing and oxidation resistance
- R22 flocculation point < -60°C
- Miscibility gap with R22 < -70°C

Part No.	Product	Qty	Size
S141120	FUCHS RENISO SP 46	1	20L

Some product lines are made to order (4 weeks lead time). Please check with your local sales representative for further information.



FUCHS RENISO K NAPHTHENIC MINERAL REFRIGERATION OILS

- Manufactured using highly refined naphthenic base oils
- Low moisture levels
- Very low pour point and floc point
- Superior thermal and oxidation stability

Part No.	Product	Qty	Size
S142220	FUCHS RENISO RC 68	1	20L
S142299	FUCHS RENISO RC 68	1	205L

Some product lines are made to order (4 weeks lead time). Please check with your local sales representative for further information.



FUCHS RENISO PG

FULLY SYNTHETIC PAG-BASED REFRIGERATION OILS

- Synthetic, NH₃-miscible refrigeration oils based on special polyalkylene glycols (PAG) with an additive system designed to provide enhanced ageing stability
- The selected synthetic components display excellent viscosity-temperature behaviour and good thermal stability

Part No.	Product	Qty	Size
S141121	FUCHS RENISO PG 68	1	55L



FUCHS RENISO MS-46

ANTI-WEAR ALKYL BENZENE REFRIGERATION OILS

Part No.	Product	Qty	Size
S141020	FUCHS RENISO S3246	1	20L

Some product lines are made to order (4 weeks lead time). Please check with your local sales representative for further information.



FUCHS RENISO C

REFRIGERATION OIL (POE) FOR CO2 COMPRESSORS

- Excellent solubility/miscibility with CFC and HCFC refrigerants, e.g. R22 and R502
- Best suited for transitional refrigerants, e.g. R401A/B, R402A/B and R22 mixtures
- Low water content

Part No.	Product	Qty	Size
S143111	FUCHS RENISO C 55E	1	55L
S143211	FUCHS RENISO C 85E	1	10L
S143311	FUCHS RENISO C 170E	1	10L

Some product lines are made to order (4 weeks lead time). Please check with your local sales representative for further information.



FUCHS RENISO SYNTH

FULLY SYNTHETIC PAO-BASED REFRIGERATION OIL

- High viscosity index
- Excellent low temperature flowability
- Extremely low pour point
- Low evaporating losses
- High flashpoint

Part No.	Product	Qty	Size
S145020	FUCHS RENISO SYNTH 68	1	20L
S141122	FUCHS RENISO SYNTH 68	1	205L

Some product lines are made to order (4 weeks lead time). Please check with your local sales representative for further information.



QwikCheck®

ACID TEST KIT

- Tests for inorganic acids without messy oil samples
- Accurate, fast and cheap with a unique design
- Colour indicator if acid is present
- All refrigerant types



Part No.	Product	Qty	Size
S110002GB	QT2000 QwikCheck	1 test	-

QwikShot®

ACID REMOVAL SYSTEM

- Improved formula – now twice as concentrated
- Leaves no residue or contamination
- Superior to acid neutralization
- Works with all refrigerants, oils and filter dryers



Part No.	Product	Qty	Size
S110014GB	QT2500 QwikShot	1	0,5oz

Hazardous transport. 1 pack treats a 70.4kW, 20 ton system. 1 bottle treats 17.6kW.

QwikInjector®

LIQUID INJECTOR FOR QWIKSHOT

- Easy to use and fill and fits to standard 3/8" hose
- 2 sizes available

Part No.	Product	Qty	Size
S110003GB	QT2510 QwikInjector	1	0,5oz
S110004GB	QT2511 QwikInjector	1	4,0oz

Hazardous transport.



Turbo Set 1000

PORTABLE BRAZING KIT

- Independent fuel adjustment
- Mignon oxygen pressure reducer and gas valve with flame arrester
- Complete with welding goggles, lighter, spanner and brazing rods
- High temperature flame - ideal for brazing, heating & soldering (3050°C)

Part No.	Product	Qty
S050026GB	Turbo Set 1000	1 kit
S050031	Turbo Set 1000 Export (Ireland & NI)	1 kit

Part No.	Spares	Qty
S050028	4 Nozzle Star	1
S050027	Complete handgrip - Hoses/valve/gauge regulators (TS1000)	1
S050006	Complete welding head	1
S050029	Spark Lighter	1
S050030	Welding Goggles	1

Part No.	Replacement Cylinder*	Qty	Size
S050014	Oxygen Cylinder	12	930ml
S050011	MaxyGas Cylinder	12	650ml

Hazardous transport.

*Due to shipping regulations, Oxygen & MaxyGas can not be shipped together when travelling overseas. They will need to be separated for shipping.



Coming
Spring 2021

Maxy Flame Kit

Oxygen/Maxy Gas welding & brazing kit

Maxy Flame Kit JAV-1264

- Twin cartridge capacity for Maxy gas bottles.
- Extended handle for ease of transportation.
- Significantly lighter than a standard Oxy/Acetylene kit.
- Extended 5m hose set included.
- Adaptable trolley to support mid size nitrogen bottle.
- No rental charges on Maxy Gas cartridges.



RESOURCES EXTRA

JALLY® STRIP PLACEMENT

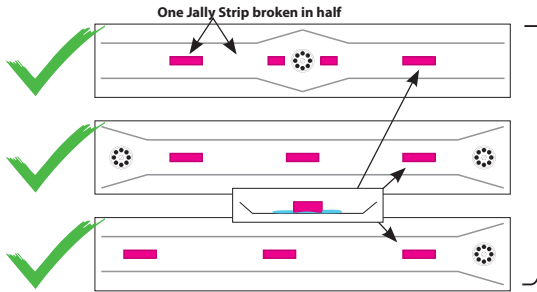
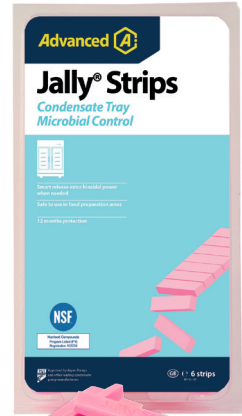
The correct application for the Jally Strips in chiller cabinet condensate drain pans will vary depending on the size and design of the chiller cabinets.

Quantity:

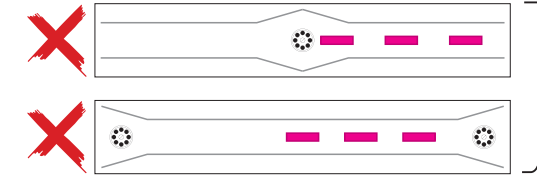
The number of Jally Strips required matches the length of the cabinet in metres. i.e. a 3 metre cabinet requires 3 x Jally Strips.

Placement:

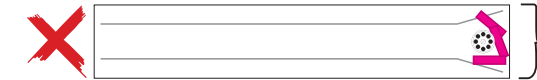
Some common sense will be required as not every potential layout will be covered by the diagram (below). As a rule of thumb, the strips should be evenly spaced along the bottom of the drain pan, where they will come in to contact with the condensate water draining down from the evaporator.



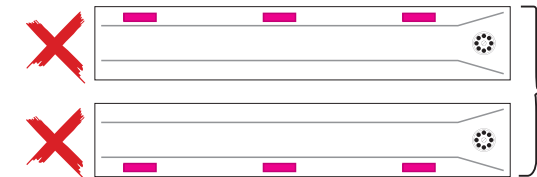
This is the correct application of the Jally Strips. They are evenly spaced along the bottom of the condensate tray, ensuring complete protection from jelly forming in the tray and drains.



These Jally Strips have been incorrectly positioned. By not spacing out the Strips evenly, it creates the potential for jelly to form on the left hand side of the condensate tray and the second drain hole.



By placing the Jally Strips on the far side of the drain, very little condensate will come in to contact with the strips, meaning very little biocide will be released. This will result in the jelly forming.



The Jally Strips have been designed to sit in the lowest part of the condensate tray. By incorrectly placing them on the high sides of the condensate tray, they will not come into contact with the required amount of condensate to release the biocide which prevents the jelly forming.



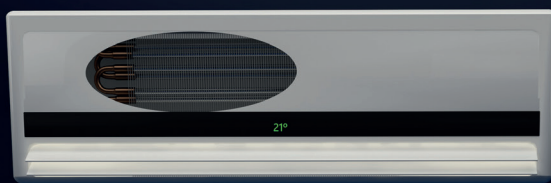
Again, the Jally Strips have been designed to sit in the lowest part of the condensate tray. Be careful not to bridge the two high sides of the condensate tray with the strips. If you do, the condensate will simply flow underneath the strips, preventing any biocide from being released.

Please note that we recommend a deep and thorough clean of any refrigeration system using **DrainSafe** and **CoolSafe** (part of our **3-step** cleaning process). Please ensure that the condensate drains are running free and clear before placing the strips - **Jally Strips** will maintain the environment that a deep clean creates.

OdourGuard

HVAC Odour Eliminator

A general-purpose, 360° protection against odour and unpleasant smells from HVAC equipment. This odour absorbing formula eliminates odours and noxious smells created by smoke, mildew, pets and organic acids.



- Triple blend of odour inhibitors and eliminators to ensure 360° protection.
- Removes general odour, cigarette smoke, sweaty gym smells, pet odour, commercial kitchen smells, garlic and onion smell at homes trapped in air handling units.
- Self-reactivates on A/C filters, after drying, with high humidity or water.
- Also useful for engineers' shoes and vehicles.
- Formulated to be compatible with all surfaces including metal, alloys, plastic, ceramics, fabric, rubber, etc.
- Forms a transparent protective layer over the surface.
- Fast, effective, and long-lasting protection using organo-crystals (ISO 18184).
- Enables pre-impregnation of surfaces and filters to effect an anti-odour function.
- Non-toxic and biodegradable – ideal for household and industrial applications.
- Does not interfere with existing perfume components in Smelly Jellies.

Perfect for;

- New and old A/C, air handling units, extractor fans and duct work.
- Ideally used after servicing HVAC.
- Use with or without Advanced Cleaning products.
- Compatible with all system materials including steel, copper, aluminium, alloys, plastic, ceramics, fabric, rubber, etc.

CONTACT



Advanced Engineering Ltd
Guardian House, Stroudley Rd, Basingstoke,
Hampshire, RG24 8NL
United Kingdom
T: +44 (0) 1256 460 300
F: +44 (0) 1256 462 266
E: sales@advancedengineering.co.uk



JAVAC (UK) Ltd
Unit 6, Drake Court, Britannia Park,
Middlesbrough, TS2 1RS
United Kingdom
T: +44 (0) 1642 232 880
E: sales@javac.co.uk



Aspen Pumps Group (Head Office)
Apex Way, Hailsham,
East Sussex, BN27 3WA
United Kingdom
T: +44 (0) 1323 848842
F: +44 (0) 1323 848846
E: sales@aspenspumps.com



**ASPEN
PUMPS
GROUP**

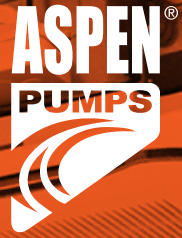


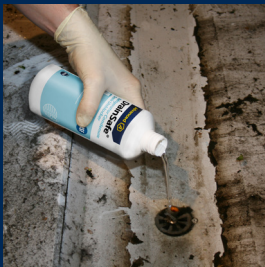
Making life easier for the installer

A global commercial resource with business premises on 4 continents, all committed to manufacturing the best products for HVAC/R installers and maintenance personnel across the globe.



For more information, please visit our group site at aspenspumps.com





Advanced

Advanced Engineering Ltd
Guardian House, Stroudley Rd, Basingstoke,
Hampshire RG24 8NL
United Kingdom

T: +44 (0) 1256 460 300

F: +44 (0) 1256 462 266

E: sales@advancedengineering.co.uk

