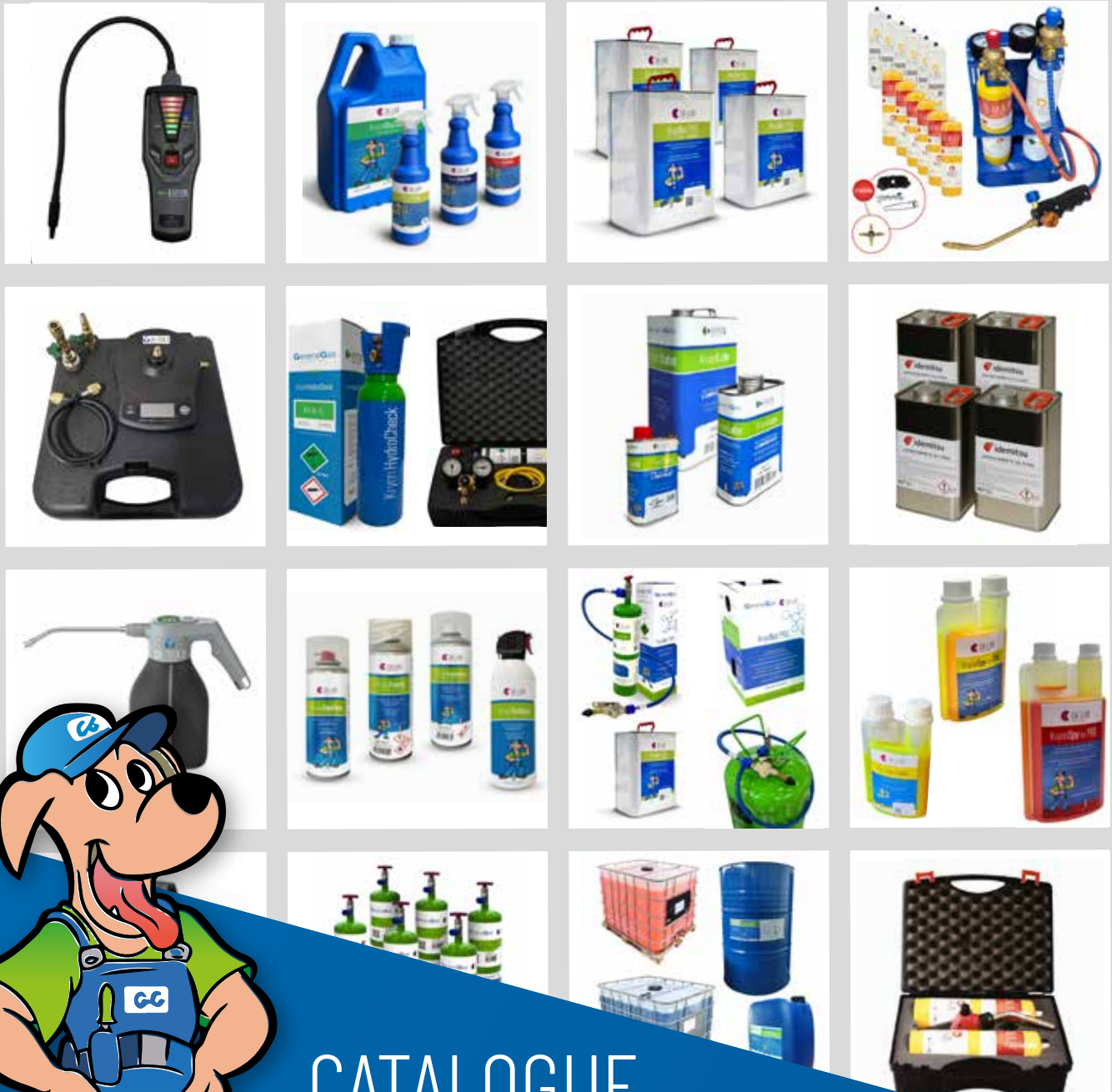


GeneralGas

PASSIONATELY COOL



CATALOGUE RACHP

OCTOBER 2025



Efficiency and sustainability at the service of **refrigeration and air conditioning** professionals

The Kryon® Solutions line from GeneralGas

includes a wide range of zero ODP and reduced GWP (Global Warming Potential) refrigerant gases, in full compliance with the new Reg. (EU) 2024-573.

They are ideal for reducing the environmental impact of direct emissions without compromising the energy efficiency and performance of RACHP (refrigeration, air conditioning and heat pump) systems.



Kryon refrigerant gases comply with the latest European regulations, ensuring energy efficiency and sustainability for a wide range of applications.



Domestic refrigeration, commercial refrigeration, industrial refrigeration, refrigerated transport, residential air conditioning, car air conditioning.



1.1 lt - 0.8 kg	F-GF-MI-AL32-1-1
2.5 lt - 1.8 kg	F-GF-MI-R32-2,5-1
7 lt - 5 kg	F-GF-MD-R32-7
13 lt - 9 kg	F-GF-MXK-R32-12,5
40 lt - 31 kg	F-GF-R32-40



1.1 lt - 0.9 kg	F-GF-MI-AL134A-1-1
2.5 lt - 2.0 kg	F-GF-MI-R134A2,5-1
6 lt - 5 kg	F-GF-MD-R134A-6
13 lt - 12 kg	F-GF-MXK-R134A-N12K
40 lt - 40 kg	F-GF-R134A-40



1.1 lt - 0.43 kg	F-GF-MI-ACR290-AC1
13 lt - 5 kg	F-GF-R290-13
40 lt - 17 kg	F-GF-R290-40



100% Reclaimed

6 lt - 5 kg	F-GF-MD-R404A-6-R
13 lt - 10 kg	F-GF-MXK-R404A-N10R
40 lt - 32 kg	F-GF-R404A-40-R



1.1 lt - 0.85 kg	F-GF-MI-AL407C-1-1
2.5 lt - 2.0 kg	F-GF-MI-R407C2,5-1
6 lt - 5 kg	F-GF-MD-R407C-6
13 lt - 10 kg	F-GF-MXK-R407C-N10K
40 lt - 38 kg	F-GF-R407C-40



1.1 lt - 0.8 kg	F-GF-MI-AL410A-1-1
2.5 lt - 2.0 kg	F-GF-MI-R410A2,5-1
6 lt - 5 kg	F-GF-MD-R410A-6
13 lt - 10 kg	F-GF-MXK-R410A-N10K
40 lt - 35 kg	F-GF-R410A-40



6 lt - 5 kg	F-GF-MD-R448A-6
13 lt - 10 kg	F-GF-MXK-R448A-10K
40 lt - 36 kg	F-GF-N40-R448A-40



6 lt - 5 kg	F-GF-MD-R449A-6
13 lt - 10 kg	F-GF-MXK-R449A-N10K
40 lt - 35 kg	F-GF-R449A-40

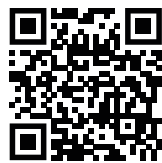


6 lt - 5 kg	F-GF-MD-R452A-6
13 lt - 10 kg	F-GF-MXK-R452A-10
40 lt - 35 kg	F-GF-R452A-40

Important note:

- The 1.1 litre, 6 litre and 13 litre sizes are refillable and sold as a package, so they include the price of the container.
- The 6 litre and 13 litre sizes benefit from the HandyGas formula, with immediate exchange of empty for full containers.
- The 40-litre format is available with a returnable formula (container rental, which remains the property of GeneralGas).

GAS REFRIGERANTS



Scan the code and discover
all the refrigerant gases
available in our shop.





New **reduced GWP** and higher energy efficiency solutions for Refrigeration and Air Conditioning

PRODUCT	ASHRAE DESIGNATION	GWP	ODP	Industrial Refrigeration	Chiller	Commercial Refrigeration	Refrigerated Transports	Residential A/C	Mobile Air Conditioning
A2L Solstice® HFO 1234ze	HFO1234ze	1,37		✓	✓	✓			
A1 Solstice® N15	R515B	288		Positive T and MT	replaces R134a	Positive T Replaces R134a			
A2L Solstice® HFO 1234yf	HFO1234yf	0,50			✓ replaces R134a				✓
A1 Solstice® N13	R450A	601		✓	✓	✓			
A1 Opteon® XP10	R513A	629		Positive T and MT	replaces R134a	Positive T Replaces R134a			
A1 Solstice® zd	HFO1233zd	3,88			✓ replaces R134a centrifugal compressors				
A1 Solstice® N40	R448A	1386		✓		✓			
A1 Opteon® XP40	R449A	1396		MT (0°÷ -15°C)		MT (0°÷ -15°C)			
A2L Kryon® 452B	R452B	697			✓			✓	
A2L Opteon® XL41	R454B	465			replaces R410A				
A2L Solstice® L40X	R455A	146		✓		✓	✓		
A2L Opteon® XL20	R454C	146							
A2L Opteon® XL40	R454A	237							
A1 Kryon® 452A	R452A	2139		✓ MT (0°÷ -15°C) BT (inf. -15°C)		✓ MT (0°÷ -15°C) BT (inf. -15°C)	✓		



Scan the code and access the Reduced GWP HFO Products and Substitutes Table.

Low GWP Medium GWP Zero ODP

www.generalgas.it info@generalgas.it

RAC Genius[®]

PRO

Scan the QR code below to access a demo version of our system. You can explore a section of the tool and immediately experience the potential of Rac Genius Pro.



Rac Genius Pro is the cutting-edge solution for monitoring and optimising the energy consumption of your air conditioning and refrigeration systems.

MAIN FEATURES

Remote access

Monitor your system wherever you are via our web portal.

Real-time monitoring

Monitor your system's performance in real time.

Non-invasive installation

It is not necessary to interrupt the operation of the system for installation.



Advanced diagnosis

Quickly identify the causes of any malfunctions.



Energy optimisation

Save energy and money with real-time performance analysis.



SMART 378

A PRODUCT CREATED BY
GENERALGAS SRL AND STUDIOEUROPA

It is the first application useful for drafting risk analyses for refrigeration systems operating with A2L refrigerants in accordance with the requirements of EN 378.

What is EN378?

EN 378 specifies the minimum requirements for the construction/installation and maintenance of refrigeration systems and heat pumps in **terms of health and safety for people and the environment.**

It establishes, in fact

- Requirements, definitions, classification and basic criteria (*part 1*)
- Design, construction, testing, labelling and mandatory documentation to be attached (*part 2*)
- Minimum safety requirements for the installation site and personnel protection (*part 3*)
- Operation, maintenance, repair and decommissioning of the installation (*part 4*)

Try it now!

Activate a free trial at
www.smart378.it

You have 15 days FREE

and without obligation to try out all the features and find out which of our solutions is right for your organisation.

Easy to use

In just a few simple steps, Smart 378 guides you through the design and certification of your system.

Enter the system data, answer the questions, check the calculations and enjoy the results.

- 1 Design and enter the system data.
- 2 Follow the guided path.
- 3 Check the calculations and find out if the configuration adopted complies with standard 378.
- 4 If necessary, implement the recommendations provided by the SMART378 application.
- 5 Confirm the data and generate the report with your customised logo.

Designed for multiple needs

	 Installer system	 Maintenance technician	 RSPD user	 Installer and Technician
Definition of permitted quantity limits with additional security measures	✓	✓	✓	✓
Plant Risk Analysis in accordance with UNI 12100	✓	✗	✗	✓
Definition of the maximum permissible quantity of refrigerant	✓	✗	✗	✓
Definition of permitted quantity limits with additional security measures	✓	✗	✗	✓
Definition of minimum security measures to be adopted	✓	✓	✓	✓
Analysis of Existing Security Measures	✗	✓	✓	✓
Calculation of dilution opening area	✓	✗	✓	✓
PPE checklist in accordance with UNI 378	✓	✓	✓	✓
Checklist Manuals, notices and inspections in accordance with UNI 378	✓	✗	✓	✓
Engine room checklist in accordance with UNI 379	✓	✓	✓	✓
Guide to handling and storing refrigerants	✗	✓	✗	✓
Guide to in-service inspections	✓	✓	✓	✓
Guide to repairing equipment that uses flammable refrigerants	✗	✓	✗	✓
Customisation of Company Logo	✓	✓	✓	✓
Final Paper (in PDF format)	✓	✓	✓	✓
Software User Manual	✓	✓	✓	✓
Software User Manual	✓	✗	✗	✓

*For 50 years, **GeneralGas** has been providing complete refrigeration & air conditioning (RACHP) solutions with respect to a sustainable future*



KRYON

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Refrigerant gases, lubricants, solvents and secondary fluids



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Chemicals for plant cleaning and maintenance



B-BRAZE

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Complete kits for brazing and soldering operations



GK-TOOLS

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Equipment and instrumentation for HVACR professionals



KRYONLUBE REFRIGERATION LUBRICANT

New generation high quality lubricant for refrigeration and air conditioning



KryonLube by GeneralGas - new generation synthetic lubricants for Refrigeration and Air Conditioning Systems

GeneralGas' fifty years of experience in the refrigerant gas sector for Refrigeration and Air Conditioning, combined with dedicated and continuously evolving research and development, have led to the birth of the new KryonLube lubricant line. **The KryonLube POE series, has been formulated with the specific intent of guaranteeing maximum performance in the presence of refrigerant gases**, excellent solubility in the cold gas sucked in by the compressor, a low vapour pressure and a controlled propensity to entrainment in the hot refrigerant, ensuring maximum efficiency under all operating conditions.

The lubricant is composed of polyol esters, made even better by a modern formulation with additives, which guarantee extremely high chemical and thermal stability.

Performance has been optimised for both traditional HFCs and the new generation of HFO (hydro fluoro olefins) refrigerants with reduced GWP, which GeneralGas proposes and assists in developing.

In addition, KryonLube Esters have an additive that is activated during system operation, neutralising moisture permanently, thus reducing acid formation and preventing corrosion and compressor damage.

The high viscosity indices guarantee compressor protection even at high temperatures, and the low pourpoint offers a wide application range.

Addressing a professional and qualified customer, KryonLube lubricant is packaged exclusively in metal canisters; the canisters are filled automatically via a state-of-the-art line, with an anhydrous nitrogen filling system and automatic capping/sealing, in order to maintain the lubricant's original characteristics over time.

The goals we set ourselves in developing the KryonLube line are:

- Maintenance of lubrication performance throughout service life
- High resistance to hydrolysis
- High compatibility with materials and components of all types of refrigeration and air conditioning systems
- Excellent insulation capabilities
- Counteracts the formation of moisture
- Optimised solubility and miscibility for a wide range of applications
- Low foam formation
- Low toxicity and high biodegradability for a focus on the environment
- Elimination of any type of polymerisation catalyst to increase stability and eliminate any form of lubricant reactivity

GeneralGas' many years of experience in developing advanced technology additive packages, combined with the use of environmentally friendly, high quality raw materials, make the KryonLube lubricant line among the best lubricants available today for the HVACR sector.

KRYONLUBE REFRIGERATION LUBRICANT

New generation high quality lubricant for refrigeration and air conditioning

1-LITRE CANISTERS



KryonLube POE 22	BOX6PCS
Code: F-OL-KL-POE22-1L-6	
KryonLube POE 32	BOX6PCS
Code: F-OL-KL-POE32-1L-6	
KryonLube POE 46	BOX6PCS
Code: F-OL-KL-POE46-1L-6	
KryonLube POE 68	BOX6PCS
Code: F-OL-KL-POE68-1L-6	
HC PAG 46 - R290 and R600a	BOX6PCS
Code: F-OL-KL-PAG46H-1L-6	
HC PAG 100 - R290 and R600a	BOX6PCS
Code: F-OL-KL-PAG100H-1L6	

KryonLube lubricants are also available
in other viscosities and in containers
20L, 200L and 1000L



5-LITRE CANISTERS



KryonLube POE 22	BOX4PCS
Code: F-OL-KL-POE22-5L-4	
KryonLube POE 32	BOX4PCS
Code: F-OL-KL-POE32-5L-4	
KryonLube POE 46	BOX4PCS
Code: F-OL-KL-POE46-5L-4	
KryonLube POE 68	BOX4PCS
Code: F-OL-KL-POE68-5L-4	
KryonLube POE 100	BOX4PCS
Code: F-OL-KL-POE100-5L-4	
KryonLube POE 170	BOX4PCS
Code: F-OL-KL-POE170-5L-4	
HC PAG 100 - R290 and R600a	BOX4PCS
Code: F-OL-KL-PAG100H-5L4	
HC PAG 46 - R290 and R600a	BOX4PCS
Code: F-OL-KL-PAG46H-5L-4	
KryonLube POE 55 CO2	BOX4PCS
Code: F-OL-KL-POE55C-5L-4	
KryonLube POE 85 CO2	BOX4PCS
Code: F-OL-KL-POE85C-5L-4	
KryonLube POE 100 CO2	BOX4PCS
Code: F-OL-KL-POE100C-5L4	
KryonLube PAG 46 CO2	BOX4PCS
Code: F-OL-KL-PAG46C-5L-4	
KryonLube PAG 68 CO2	BOX4PCS
Code: F-OL-KL-PAG68C-5L-4	
KryonLube PAG 100 CO2	BOX4PCS
Code: F-OL-KL-PAG100C-5L4	

KRYONLUBE REFRIGERATION LUBRICANT

New generation high quality lubricant for refrigeration and air conditioning

POE SERIES

TPOLOGIES:

POE LUBRICANTS	Reference Method	POE 22	POE 32	POE 46	POE 55	POE 68	POE 100	POE 170	POE 220
Kinematic viscosity @ 40 °C (cST)	ASTM-D445	22	32	46	55	68	100	170	220
Kinematic viscosity @ 100 °C (cST)	ASTM-D445	4,5	5,9	7,9	9,5	10,2	11,5	16,6	18,6
Viscosity Index	ASTM-D2270	139	146	144	146	144	117	107	106
Pour Point (°C)	ASTM-D97	-51	-53	-51	-45	-48	-36	-27	-25
Flash Point (°C)	ASTM-D92	200	215	234	246	255	271	280	280
Refractive index	ASTM-D1747	1,4504	1,4536	1,4557	1,4564	1,4572	1,4545	1,4494	1,4516
Density @ 15°C (g/ml)	ASTM-D4052	0,946	0,960	0,973	0,979	0,982	0,966	0,972	0,975
Water (ppm)	ASTM-E1064	40	40	40	40	40	40	40	40
Acidity (mgKOH/g)	ASTM-D974	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.03
Color (APHA)	ASTM-D1209	25	25	25	25	25	50	50	31

APPLICATIONS:

	Conditioning 		Industrial Refrigeration 		Commercial Refrigeration 	
Lubricant	Alternatives	Rotary	Centrifuges	Alternatives	Screw	Scroll
KryonLube POE 22	✓	✓	✓	✓		✓
KryonLube POE 32	✓	✓	✓	✓		✓
KryonLube POE 46	✓	✓	✓	✓	✓	✓
KryonLube POE 55	✓	✓	✓	✓	✓	✓
KryonLube POE 68	✓	✓	✓	✓	✓	✓
KryonLube POE 100			✓	✓	✓	✓
KryonLube POE 170			✓	✓	✓	✓
KryonLube POE 220			✓	✓	✓	✓

Use sealed containers. The product loses properties if exposed to air for prolonged periods.
Store it between -40°C and +40°C

KRYONLUBE REFRIGERATION LUBRICANT

New generation high quality lubricant for refrigeration and air conditioning

PAG AND POE SERIES FOR CO₂

TYPOLOGIES:

PAG LUBRICANTS	Reference Method	PAG 46 CO ₂	PAG 68 CO ₂	PAG 100 CO ₂
Kinematic viscosity @40°C (cST)	ASTM-D445	46	68	100
Kinematic viscosity @100°C (cST)	ASTM-D445	12,2	14,1	20,2
Viscosity Index	ASTM-D2270	220	221	223
Pour Point (°C)	ASTM-D97	-51	-53	-52
Flash Point (°C)	ASTM-D92	250	255	255
Refractive index	ASTM-D1747	1,4448	1,4475	1,4480
Density @ 15°C (g/ml)	ASTM-D4052	0,984	0,991	0,993
Water (ppm)	ASTM-E1064	40	40	40
Acidity (mgKOH/g)	ASTM-D974	< 0.02	< 0.02	< 0.02
Color (APHA)	ASTM-D1209	25	25	50

POE LUBRICANTS	Reference Method	POE 55 CO ₂	POE 85 CO ₂	POE 100 CO ₂
Kinematic viscosity @40°C (cST)	ASTM-D445	55	85	100
Kinematic viscosity @100°C (cST)	ASTM-D445	8,4	10,8	12,4
Viscosity Index	ASTM-D2270	130	120	115
Pour Point (°C)	ASTM-D97	-52	-53	-52
Flash Point (°C)	ASTM-D92	280	280	285
Refractive index	ASTM-D1747	1,4559	1,4576	1,4579
Density @ 15°C (g/ml)	ASTM-D4052	0,961	0,966	0,968
Water (ppm)	ASTM-E1064	40	40	40
Acidity (mgKOH/g)	ASTM-D974	< 0.02	< 0.02	< 0.02
Color (APHA)	ASTM-D1209	25	50	50

Use sealed containers. The product loses properties if exposed to air for prolonged periods.
Store it between -40°C and +40°C

KRYONLUBE REFRIGERATION LUBRICANT

New generation high quality lubricant for refrigeration and air conditioning

PAG FOR HC

TYPES:

PAG FOR HC LUBRICANTS	Reference Method	PAG 46 HC	PAG 68 HC	PAG 100 HC	PAG 150 HC
Kinematic viscosity @40°C (cST)	ASTM-D445	46	68	100	150
Kinematic viscosity @100°C (cST)	ASTM-D445	9,1	12,9	17,9	25,1
Viscosity Index	ASTM-D2270	186	192	200	208
Pour Point (°C)	ASTM-D97	-45	-42	-39	-43
Flash Point (°C)	ASTM-D92	225	215	230	235
Refractive index	ASTM-D1747	1,4393	1,4473	1,4485	1,4498
Density @ 15°C (g/ml)	ASTM-D4052	0,989	0,923	0,996	0,999
Water (ppm)	ASTM-E1064	40	40	40	40
Acidity (mgKOH/g)	ASTM-D974	< 0.02	< 0.02	< 0.02	< 0.02
Color (APHA)	ASTM-D1209	25	25	50	50

Use sealed containers. The product loses properties if exposed to air for prolonged periods. Store it between -40°C and +40°C

AVAILABLE FORMATS:

PAG HC	46	68	100	150
Litre	✓	✓	✓	✓
5 litres	✓	✓	✓	✓
20 litres	✓	✓	✓	✓
200 litres	✓	✓	✓	✓
1000 litres	✓	✓	✓	✓



KRYONLUBE AUTOMOTIVE LUBRICANT

New generation high quality lubricant for refrigeration and air conditioning



1 LITER CANISTER (PACKAGE 6 PCS.)

KryonLube® EXTRA PAG 46 AUTO

BOX6PCS

Code: F-OL-KL-PAG46A-1L-6

KryonLube® EXTRA PAG 46 AUTO + DYE

BOX6PCS

Code: F-OL-KL-PAG46D-1L-6

KryonLube® EXTRA PAG 100 AUTO

BOX6PCS

Code: F-OL-KL-PAG100A-1L6

KryonLube® EXTRA PAG 100 AUTO + DYE

BOX6PCS

Code: F-OL-KL-PAG100A-1L6

KryonLube® EXTRA PAG Universal AUTO

BOX6PCS

Code: F-OL-KL-PAGUNA-1L-6

KryonLube® EXTRA PAG Universal + DYE AUTO

BOX6PCS

Code: F-OL-KL-PAGUND-1L-6

POE LUBRICANT FOR BEV (BATTERY ELECTRIC VEHICLE)

KryonLube® EXTRA POE 80 BEV

BOX6PCS

Code: F-OL-KL-POE80B-1L-6

KryonLube® EXTRA POE 100 BEV

BOX6PCS

Code: F-OL-KL-POE100B-1L6

CANISTER 250 ML. (PACKAGE 12 PCS.)

KryonLube® EXTRA POE 80 BEV Electric Vehicles

BOX12PCS

Code: F-OL-KL-POE80B-250

KryonLube® EXTRA POE 100 BEV Electric Vehicles

BOX12PCS

Code: F-OL-KL-POE100B-250

KryonLube® EXTRA PAG 46 AUTO

BOX12PCS

Code: F-OL-KL-PAG46A-250

KryonLube® EXTRA PAG 100 AUTO

BOX12PCS

Code: F-OL-KL-PAG100A-250

KryonLube® EXTRA PAG Universal AUTO

BOX12PCS

Code: F-OL-KL-PAGUNIA-250

KryonLube® EXTRA PAG 46 + DYE AUTO

BOX12PCS

Code: FF-OL-KL-PAG46D250A

KryonLube® EXTRA PAG 100 + DYE AUTO

BOX12PCS

Code: F-OL-KL-PAG100D250A

KryonLube® EXTRA PAG Universal + DYE AUTO

BOX12PCS

Code: F-OL-KL-PAGUNID-250A

KRYONLUBE AUTOMOTIVE LUBRICANT

New generation high quality lubricant for refrigeration and air conditioning

PAG AND POE FOR AUTOMOTIVE USE

TYPOLOGIES:

EXTRA PAG and POE BEV	Reference Method	POE 80	POE 100	PAG 46	PAG Universal	PAG 100
Kinematic viscosity @40°C (cST)	ASTM-D445	80	100	46	68	100
Kinematic viscosity @100°C (cST)	ASTM-D445	10,5	11,5	9,1	12,9	17,9
Viscosity Index	ASTM-D2270	123	117	186	192	200
Pour Point (°C)	ASTM-D97	-42	-36	-45	-42	-39
Flash Point (°C)	ASTM-D92	263	271	225	215	230
Refractive index	ASTM-D1747	1,4519	1,4545	1,4393	1,4473	1,4485
Density @ 15°C (g/ml)	ASTM-D4052	0,966	0,966	0,989	0,923	0,996
Water (ppm)	ASTM-E1064	40	40	40	40	40
Acidity (mgKOH/g)	ASTM-D974	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Color (APHA)	ASTM-D1209	50	50	25	25	50

Use sealed containers. The product loses properties if exposed to air for prolonged periods.
Store it between -40°C and +40°C

AVAILABLE FORMATS:

EXTRA PAG and POE BEV	POE 80	POE 100	PAG 46	PAG UNIVERSAL	PAG 100	PAG 46 + DYE	UNIVERSAL PAG + DYE
250 ml	✓	✓	✓	✓	✓	✓	✓
Litre	✓	✓	✓	✓	✓	✓	✓

DAPHNE PVE LUBRICANTS BY IDEMITSU JAPAN

To complete the KryonLube POE and PAG lubricant range, GeneralGas has acquired the distribution rights for innovative high-performance PVE lubricants by Idemitsu (Japan), approved by most compressor manufacturers, including Bitzer, Tecumseh, Daikin, Hitachi, Mitsubishi and Danfoss Scroll Technologies.

Idemitsu has developed polyvinyl ether (PVE) as an innovative refrigeration oil for HFC and HFO refrigeration systems. PVE is non-hydrolytic in nature, is a superior lubricant, can be solubilised in process fluids and is miscible with all HFC and HFO refrigerants and non-synthetic gases such as R-290 and R-744.

One of the advantages of PVE is that its water content is within a few hundred parts per million, and it is non-hydrolysable. In other words, unlike traditional POEs, PVE lubricants do not react chemically in the presence of moisture, thus not triggering the formation of acids that can damage compressor windings. Daphne Hermetic Oil is part of Idemitsu's FV series of PVE products.

It is suitable as an oil for air conditioning and industrial/commercial refrigeration systems charged with HFCs, HFOs, hydrocarbons (R-290 and R-600a) and carbon dioxide (R-744). One of the special features of Daphne Hermetic Oil is the inclusion of additives such as antioxidants and flow agents.



BENEFITS

- Compatible with all HFC, HFO and natural refrigerants, one oil for multiple applications.
- Improved miscibility.
- Better solubility with both process fluids and existing compressor oils.
- No hydrolysis, the oil is more resistant to capillary tube blockages and does not react with H₂O to form acids and metal soap.
- Improved anti-wear (AW) effectiveness, providing superior lubrication and component protection.
- Extreme high pressure (EP) agent effectiveness thanks to low PVE polarity.
- High dielectric strength for applications with electric compressors.

AVAILABLE FORMATS:

PVE	FVC32D	FVC68D	FV50S
1 litre	✓	✓	✓
5 litre	✓	✓	✓

DAPHNE PVE LUBRICANTS BY IDEMITSU JAPAN

APPLICATION FOR COMPRESSORS	COMMERCIAL APPLICATIONS
• Scroll compressors • Rotary vane compressors • Screw compressors • Centrifugal compressors • Reciprocating compressors • Piston compressors	• Commercial air conditioning • Industrial chillers • Cooling towers • Residential air conditioning • Vending machines • Thermal medium • R22 retrofit
HANDLING APPLICATIONS	COMPATIBLE REFRIGERANTS
• Refrigerated containers for shipping • Air-conditioned cabins (mining, agricultural and construction sectors)	R134, R1234yf, R32, R410A, R407C, R290, R454B, R455A, R454C, R448A, R449A, R452A, R1234ze, R744 ecc.
RESIDENTIAL APPLICATIONS	
• Centralised A/C systems • Mono-split, dual, triad (independent units for rooms) • Domestic refrigerators/freezers • Monobloc A/C units	

LUBRICANTS PVE IDEMITSU	TEST METHOD	UNIT	DAPHNE HERMETIC OIL		
			FVC32D	FVC68D	FV50S
ISO Viscosity					
Density at 15°C	ASTM D1298	g/ cm ³	0,9252	0,9369	0,9315
Color	ASTM D1500		L0.5	L0.5	L0.5
Flash Point / COC	ASTM D92	°C	178	204	206
Viscosity at 40°C	ASTM D445	mm ² /s	32,4	66,6	50,7
Viscosity at 100°C	ASTM D445	mm ² /s	5,12	8,04	6,79
Viscosity Index	ASTM D2270		78	84	84
Pour Point	ASTM D97	°C	-47.5	-37.5	-37.5
Total Acid Number			<0.01	<0.01	<0.02
Volumetric Resistivity		(RT) Ωcm	7 x 10 ⁻¹³	6 x10 ⁻¹³	4 x10 ⁻¹³
Copper Corrosion (100°Cx1h)	ASTM D130	ppm	1 (1B)	1 (1B)	1 (1B)
Water content		ppm	100	100	<10

KRYONVAC - SEMI-SYNTHETIC VACUUM PUMP OIL

(optimised for excellent performance)



BOX
6PCS

Made in Italy, premium quality oil specifically for vacuum pumps, developed by the GeneralGas laboratory; guarantees excellent vacuum pump performance.

KryonVac lubricant is a semi-synthetic blend of lubricants, optimised to give the best lubrication, while remaining free of the need for registrations and licences.

Code: F-OL-KL-KRVAC-1L6

KRYON EASYFLARE



BOX
12PCS

Kryon® EasyFlare is the universal NON-flammable lubricant to assist our professional equipment to produce a perfect flare. It can be used with both manual and electric flaring tools.

A small amount of product is sufficient to facilitate processing; any residual product will not change or affect the functioning of the system.

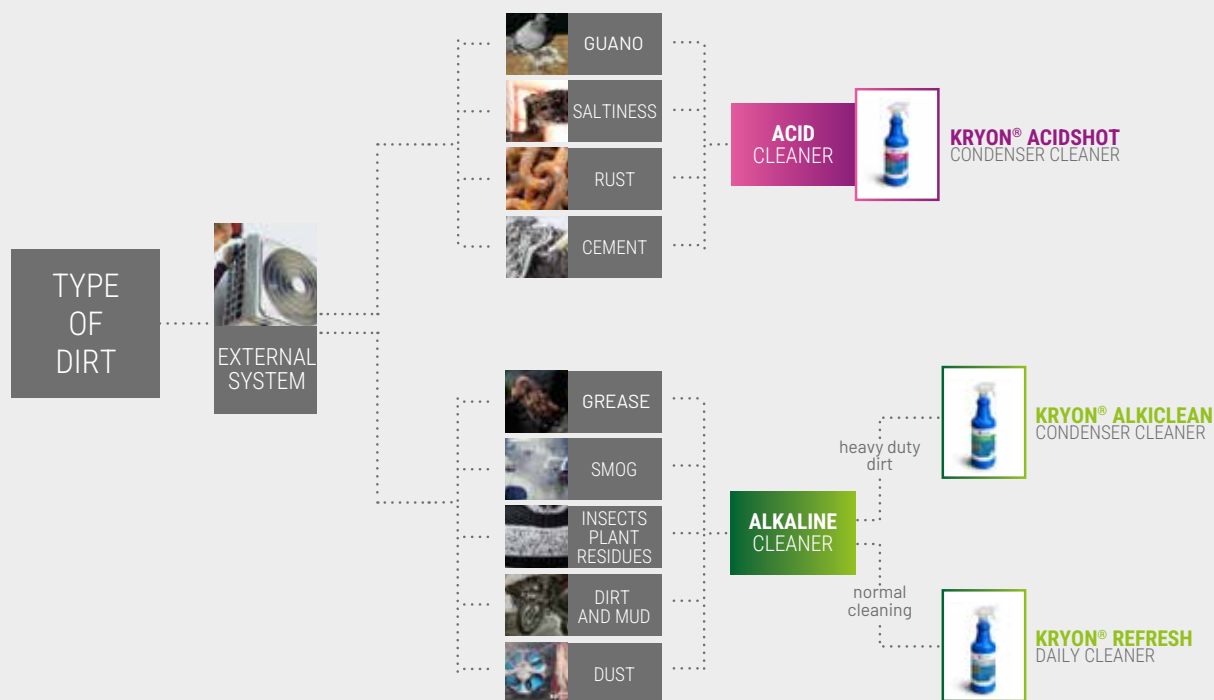
Code: F-PC-KR-KEAFL200-1



GK-LAB
Chemical Products

EXTERNAL SYSTEM

OUTDOOR UNIT (CONDENSER)



KRYON ACIDSHOT



BOX
6PCS

Kryon® AcidShot Condenser Cleaner is a descaling acid cleaner specifically designed for applications on outdoor units that are subject to corrosion, salt and other types of fouling.

1 litre bottle with 360° dispenser

Code: F-PC-KR-KASCC-1LT-6

KRYON ACIDSHOT | 5LT



BOX
4PCS

Kryon® AcidShot Condenser Cleaner is a descaling acid cleaner specifically designed for applications on outdoor units that are subject to corrosion, salt and other types of fouling.

Dilution 1:6

Code: F-PC-KR-KASCC-5LT-4

KRYON ALKYCLEAN



BOX
6PCS

Kryon® AlkyClean Condenser Cleaner is a degreasing alkaline cleaner specifically designed for applications on outdoor units that are subjected to smog, grease and other types of dirt.

1 litre bottle with 360° dispenser

Code: F-PC-KR-KACCC-1LT-6

KRYON ALKYCLEAN | 5LT



BOX
6PCS

Kryon® AlkyClean Condenser Cleaner is a degreasing alkaline cleaner specifically designed for applications on outdoor units that are subjected to smog, grease and other types of dirt.

Dilution 1:6

Code: F-PC-KR-KACCC-5LT-4

KRYON REFRESH



BOX
6PCS

Kryon® Refresh Daily Cleaner is an alkaline detergent with degreasing action, specifically designed for application on both outdoor and indoor units, which should be serviced frequently to ensure a high level of efficiency.

1 litre bottle with 360° dispenser

Code: F-PC-KR-KRDCL-1LT-6

KRYON REFRESH | 5LT



BOX
4PCS

Kryon® Refresh Daily Cleaner is an alkaline detergent with degreasing action, specifically designed for application on both outdoor and indoor units, which should be serviced frequently to ensure a high level of efficiency.

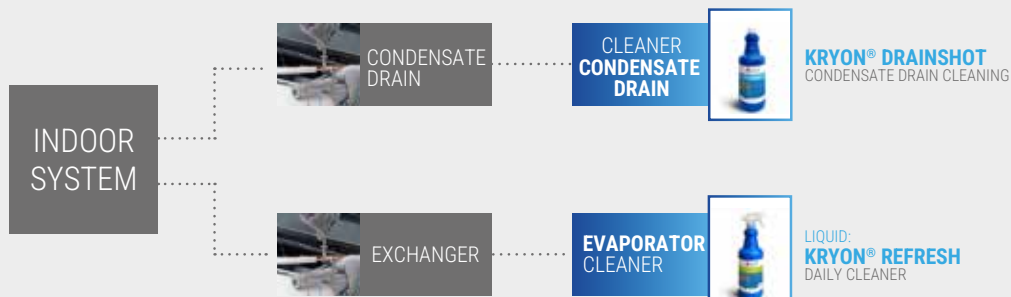
Dilution 1:6

Code: F-PC-KR-KRDCL-5LT-4

INDOOR SYSTEM

INDOOR UNIT (EVAPORATOR)

INDUSTRIAL AND COMMERCIAL
REFRIGERATION



KRYON DRAINSHOT | 1LT



BOX
6PCS

Split & Fan-coil A/C condensate drain cleaner Kryon DrainShot - 1 litre bottle

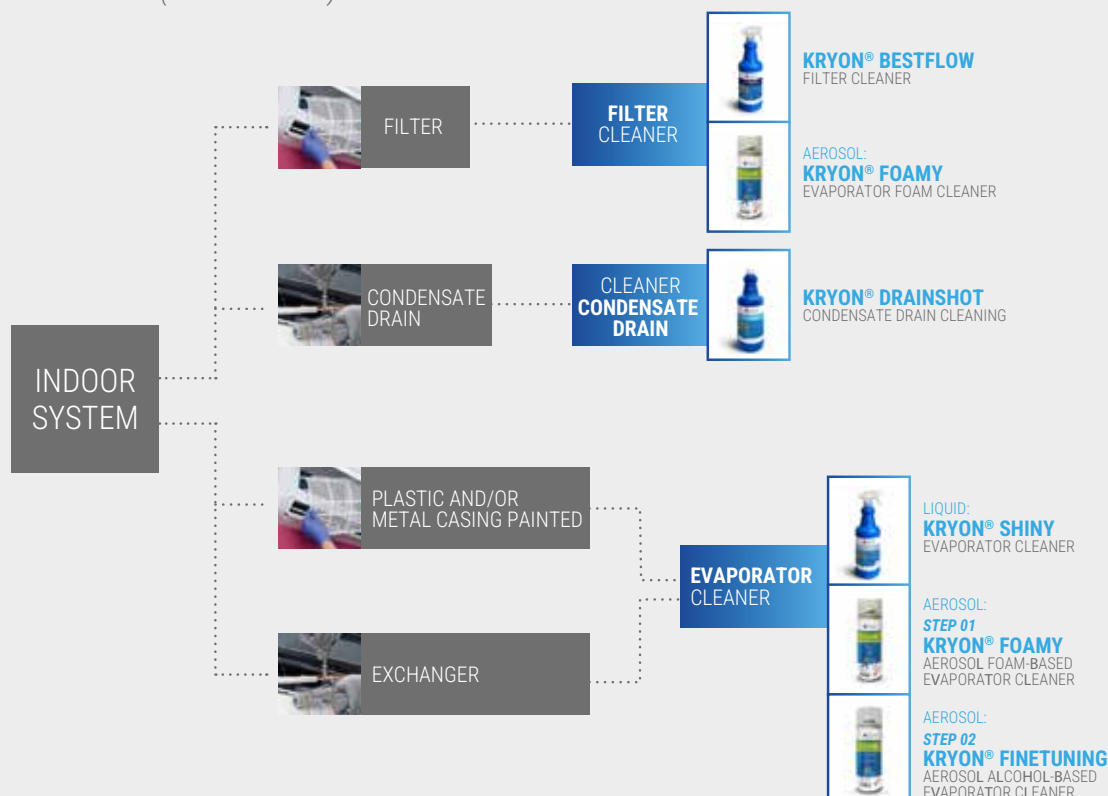
Kryon® DrainShot is the cleaner designed for all types of condensate drains. It removes scale and mucilage that can form from moisture and stagnant dirt, ensuring the correct drain flow of the condensate collection system.

Code: F-PC-KR-KDRAI-1LT-6

INDOOR SYSTEM

AIR CONDITIONING

INDOOR UNIT (EVAPORATOR)



KRYON BESTFLOW



BOX
6PCS

Kryon® BestFlow Filter Cleaner is a scented filter cleaner, suitable for application on various types of filters, whether plastic, fabric or metal.

It ensures the best removal of what is collected by the filter, increasing air quality and system performance. Leaves a pleasant clean scent.

1 litre bottle with 360° dispenser

Code: F-PC-KR-KBFLC-1LT-6

KRYON SHINY



BOX
6PCS

Kryon® Shiny Evaporator Cleaner is a perfumed cleaner with purifying action specially designed for applications on indoor units, which are receptacles for dust and environmental dirt.

It is not aggressive, and is therefore perfectly suitable for treating plastics as well as steel, copper, aluminium and painted components.

1 litre bottle with 360° dispenser

Code: F-PC-KR-KSECL-1LT-6

KRYON SHINY | 5LT



BOX
4PCS

GKLab Liquid Cleaner for Evaporators and Plastics

Dilution 1:5 Kryon Shiny

Kryon® Shiny Evaporator Cleaner is a perfumed cleaner with purifying action designed specifically for applications on indoor units, which are receptacles for dust and environmental dirt.

Code: F-PC-KR-KSECL-5LT-4

KRYON FOAMY



BOX
6PCS

GK-Lab Kryon Foamy Aerosol Cleaner for Evaporators (indoor units)

Kryon® Foamy is the fast and effective solution for frequent maintenance of air conditioning systems (indoor units). Its foaming base loosens dirt and directs it towards the drain, leaving a pleasant clean scent.

Kryon Foamy - 400ml

Code: F-PC-KR-KFOAM-400-6

KRYON FINETUNING



BOX
6PCS

GK-Lab FineTuning - alcohol-based non Foaming Aerosol Cleaner for Evaporators (indoor units)

Kryon® FineTuning is the quick and effective solution for frequent maintenance of air conditioning systems (indoor units). Its solvent base loosens dirt and directs it towards the drain, leaving a pleasant clean scent.

Kryon FineTuning - 400ml

Code: F-PC-KR-KFINT-400-6

PROFESSIONAL AIR CONDITIONING MAINTENANCE KIT

Efficiency and Hygiene for Every Job

A versatile, practical, and complete kit – designed to ensure performance, hygiene, and reliability for every air conditioning maintenance task.



The GK-Lab Air Conditioning Kit is the ideal solution for HVAC professionals looking for specific, high-performance, and ready-to-use products for the complete maintenance of residential and commercial A/C systems.

This exclusive mix of cleaners is designed to ensure deep cleaning, safe sanitization, and consistent efficiency of systems throughout every stage of maintenance.

Kit contents:

- 1x Kryon BestFlow (1 liter)
- 1x Kryon DrainShot (1 liter)
- 1x Kryon Refresh (1 liter)
- 1x Kryon Foamy (400 ml. foaming spray)
- 1x Kryon FineTuning (400 ml. non-foaming spray)
- 1x Kryon Shiny (1 liter)

Code: F-PC-KR-KIT-CLI-P01

PROFESSIONAL REFRIGERATION MAINTENANCE KIT

Complete Solution for Refrigeration System Maintenance

Perfect for HVACR technicians, maintenance professionals, and operators, this kit is an essential ally to ensure hygiene, optimal performance, and long-term durability of refrigeration systems.



The GK-Lab Refrigeration Kit is designed to provide professionals in the refrigeration sector with a complete, effective, and ready-to-use solution for both routine and extraordinary maintenance of refrigeration systems. Composed of a carefully selected mix of high-performance products, this kit meets all cleaning needs: evaporators, condensers, filters, plastics, and condensate drains.

Ease of use: GK-Lab spray bottles are equipped with 360° nozzles, allowing for effective application in any position and easy access to even the hardest-to-reach areas.

Kit contents:

- 1x Kryon Shiny (1 liter)
- 1x Kryon BestFlow (1 liter)
- 1x Kryon DrainShot (1 liter)
- 1x Kryon Refresh (1 liter)
- 1x Kryon AcidShot (1 liter)
- 1x Kryon AlkyClean (1 liter)

Code: F-PC-KR-KIT-REF-P01

GK-LAB KRYONET PRO



BOX
6PCS

GK-Lab Nitrogen pressurised solvent, professional use with high evaporation level.

Non-flammable, for A/C and refrigeration systems KryoNet Pro.
Disposable pressurised container 1 litre/800 grams packed in cardboard box

Highly degreasing, removes lubricant residues, moisture and oxide deposits.

Container already including 1/4" SAE handwheel valve

Code: F-AF-LA-KRNETP-1L-6

GK-LAB KRYONET PRO | 13LT



GK-Lab Nitrogen pressurised solvent, professional use with high evaporation level.

Non-flammable, for a/c and refrigeration systems KryoNet Pro.
Disposable pressurised container 13.6 litres/10 kg packed in cardboard box

Highly degreasing, removes lubricant residues, moisture and oxide deposits.

Container already including 1/4" SAE handwheel valve

Code: F-AF-LA-KRNETP-13LT

SOLVENT GUN AND HOSE



KryoNet PRO pressurised solvent (washing liquid) gun and hose - 1/4" connection on both sides, with non-return valves

Only tubing with connections and gun (solvent container solvent container pressurised with nitrogen supplied separately).

Code: F-AF-LA-KRNET-GUN

KRYONET PRO LIQUID | 1LT



BOX
6PCS

GK-Lab Professional Use High Evaporation Solvent.

Non-flammable, for KryoNet Pro A/C and Refrigeration Systems.

1 litre metal canister - 1.3 kg

Highly degreasing, removes lubricant residues, moisture and oxide deposits.

Code: F-PC-KR-KNPRO-1LT-6

KRYONET PRO LIQUID | 5LT



BOX
4PCS

GK-Lab Professional Use High Evaporation Solvent.

Non-flammable, for KryoNet Pro A/C and Refrigeration Systems.

5 litre metal canister - 6.5 kg

Highly degreasing, removes lubricant residues, moisture and oxide deposits.

Code: F-PC-KR-KNPRO-5LT-4

KRYONET PRO LIQUID | 15 LT



GK-Lab Professional use high evaporation solvent, non-flammable, for A/C and refrigeration systems KryoNet Pro

Highly degreasing, removes residues of lubricant residues, moisture and oxide deposits.

15 litre metal canister - 19.5 kg

Code: F-PC-KR-KNPRO-15LT

KIT FOR FLUSHING OF REFRIGERATION LINES



Including cylinder 0,75 lts., gun, flexible hose, pressure gauge, adapter with ball valve.

Flushing equipment for A/C and refrigeration pipes (HVACR)

To be used with KryoNet PRO liquid (1 liter - 5 liters - 15 liters)

Code: F-ER-AT-LAV-01

KRYONSPY

HVACR - LEAK DETECTOR (DYE) POE OIL BASED



GK-Lab KryonSpy YELLOW UV Fluorescent Yellow Leak Detector Tracer for POE HVACR oil

250ml | 1 litre bottle

It is the most effective method for detecting leaks in a system. KryonSpy dissolves in the compressor lubricant and circulates throughout the system with the gas. If there is a leak, it is also drawn outwards, allowing it to be easily detected.

Code: F-PC-KS-GPOE-H250-6

Code: F-PC-KS-GPOE-H1LT-6

KRYONSPY

HVACR AND AUTOMOTIVE LEAK DETECTOR (DYE) PAG OIL BASED



KryonSpy PAG is the leak detection tracer series for automotive and HVACR systems using PAG lubricants.

Extremely effective in ultraviolet light, it has a use dilution of 1 ml per 60 ml of compressor oil. It can be inserted manually or from charging stations. Both preventive and research use if a leak is suspected. It does not alter the functionality of the system and remains in circulation after use for future searches.

250 ml bottle | 1 litre bottle

Code: F-PC-KS-GPAG-A250-6

Code: F-PC-KS-GPAG-A1LT-6

KRYONSPY HEATEX

LEAK DETECTOR FOR SECONDARY FLUIDS - GLYCOL BASED



KryonSpy HeatEx is the Glycol-based leak detector for applications in secondary fluids containing Glycols or Water.

It works with all types of Glycol and Glycerine, as well as salt solutions.

250 ml bottle | 1 litre bottle

Code: F-PC-KS-GGLI-G250-6

Code: F-PC-KS-GGLI-G1LT-6

KRYONSPY

AUTOMOTIVE - LEAK DETECTOR (DYE) POE BASED FOR BEV



**GK-Lab Fluorescent Red Leak Detector Tracer
UV KryonSpy RED for POE AUTO oil**

This is the most effective method of detecting leaks in a system. KryonSpy dissolves in the compressor lubricant and circulates throughout the system with the gas. If there is a leak, it too is drawn outwards, allowing it to be easily detected.

Compatible with R134a - R456A - R1234yf

250ml bottle | 1 litre bottle - 6 pack

Code: F-PC-KS-RPOE-A250-6

Code: F-PC-KS-RPOE-A1LT-6

KRYONBUBBLES AEROSOL



BOX
6PCS

Professional non-flammable leak detector - aerosol 400 ml.

Non-flammable, nitrogen propellant
For refrigerant gases HFO, HFC, R290, R744, in 400 ml aluminium spray can, net content excluding propellant 300 ml.

KryonBubbles is a leak detector (made in Italy) that acts by bubble formation; ensures rapid and effective control of gas leaks from the components of a refrigeration and air conditioning system (fittings, valves, welded and brazed elements, etc.)

Code: F-PC-KR-KBSPRAY-6

GKLAB SPRAY LEAK DETECTOR



BOX
6PCS

GKLab Spray Leak Detector KryonBubbles - 1 litre ready-to-use bottle with trigger

KryonBubbles is a leak detector for refrigerant, liquefied and compressed gases, including flammable gases. Designed with the correct viscosity level, it adheres effectively to surfaces ensuring high sensitivity to leaks. Forms highly visible and persistent bubbles even at low temperatures, allowing leak detection with absolute precision. Applicable on metals and plastics, works even in the presence of moisture.

Code: F-PC-KR-KBUTR-1LT-6



MAXIFLAME



Professional brazing kit with pressure reducers and pressure gauges, oxygen cylinder and MAP cylinder (temperature up to 3,100 °C)

The Kit includes:

- 1 B-M.A.P. cylinder - 1 liter - gas contents 420 gr. - USA CGA 600 valve connector.
- 1 G-OXYGEN cylinder - 1 liter - 110 bar - M12x1 valve connector.
- 1 oxygen G-NANO adaptor with HP and LP pressure gauge and double protection backstop valve.
- 1 gas G-NANO adaptor with LP pressure gauge and double protection backstop valve.
- Hose assemblies - 2 mt.
- Handle with control knobs and oxygen and gas backstop valves.
- Nozzle and tip of 160 lt/h.
- 4-pointed star (63-100-250-315 lt.) - M8x1 connection.
- Goggles, multi-use wrench and igniter.

Code: G-ABA-MAXIFLAME-01

MINIFLAME



Brazing kit with reducers, oxygen cylinder and B-Flame cylinder (flame temperature up to 2,900 °C)

The Kit includes:

- 1 B-FLAME cylinder - 1 liter - gas contents 385 gr. - EU 7/16" valve connector.
- 1 G-OXYGEN cylinder - 1 liter - 110 bar - M12x1 valve connector.
- 1 oxygen G-NANO adaptor with backstop valve.
- 1 gas G-NANO adaptor with backstop valve.
- Hose assemblies - 2 mt.
- Handle with control knobs and oxygen and gas backstop valves.
- Nozzle and tip of 160 lt/h.
- 4-pointed star with different measures which are lower than 160 lt/h - M6x1 connection.
- Goggles, multi-use wrench and igniter.

Code: G-ABA-MINIFLAME-01

B-BRAZE® KIT 1 LIGHT



B-BRAZE Kit 1 Light is a professional set to use for construction and maintenance of systems in the HVAC&R sector - Refrigeration, Air Conditioning e Thermo-hydraulic.

Flame temperature up to 3,100°C/5,612°F

The Kit consists of a case containing:

- No. 2 B-M.A.P. cylinders - 1 lt./420 g each
- No. 1 B-TORCH - Lance complete with SUPER CYCLON FLAME nozzle
- No. 1 B-ADAPTOR - USA-EU adapter

Code: G-ABA-BRAZEKIT-01L

B-BRAZE® KIT 1



B-BRAZE Kit 1 is a professional set for use in the construction and maintenance of new installations in the HVAC&R - Refrigeration, Air Conditioning and Plumbing sector.

Flame temperature up to 3,100°C/5,612°F

The kit consists of a case containing:

- No. 2 B-M.A.P. cylinders - 1 lt./420 g each
- No. 1 B-TORCH - Lance complete with SUPER CYCLON FLAME nozzle
- No. 1 Lance complete with FINE FLAME nozzle
- No. 1 Lance complete with MEDIUM CYCLON FLAME nozzle
- No. 1 B-ADAPTOR - USA-EU adapter
- No. 1 Hose
- No. 1 Canister hook

Code: G-ABA-BRAZEKIT-01

MAXIFLAME KIT



The Maxi Flame Kit is a professional soldering kit, indispensable when high performance soldering is required.

The Kit includes:

- **No. 7 B-M.A.P. cylinders** - Capacity 1 litre / Gas content 420 gr. - US Valve Connection CGA 600
- **No. 7 G-OXYGEN cylinders** - 1 litre - 110 bar - M12x1 valve connection
- 1 G-NANO oxygen reducer with AP and BP pressure gauge and double protection check valve
- 1 G-NANO gas reducer with BP pressure gauge and double protection check valve
- 2 m connected hoses
- Handle with regulating taps, integrated double protection valves for oxygen and gas
- 160 l/h lance and tip
- 4-point star 63-100-250-315 lt/h - M8x1 connection
- Protective goggles, multi-purpose spanner and igniter

Code: G-ABA-MAXIFLAME-01 + G-GTX-OX-B-0,95L-6 + G-ABB-BMAP-1L-6

B-TORCH



B-TORCH is a high-performance piezo ignition brazing torch used for all professional brazing applications.

Code: G-ABA-BTORCH-01

FLEXIBLE FOR B-TORCH



Pipe for B-Torch complete with hook for B-MAP cylinder (B-BRAZE Kit 1 and 2 accessory)

Code: G-ABA-BTOR-TUFLEX-1

B-BRAZE[®] KIT | 5LT



B-BRAZE 5 litre - professional oxyacetylene welding kit with 5 litre high pressure cylinders

The Kit consists of:

- No. 1 Oxygen cylinder - Lt. 5,4 / Mc. 1
- No. 1 Acetylene cylinder - Lt. 5,7 / Kg. 1
- No. 1 Bottle-carrying trolley Lt. 5 - O₂/Ac - Double
- No. 1 Light Alloy Handle 19-6 MHF+O₂/Acetylene Mixer H192E-MHF + Safety Valves
- No. 1 Welding Lance - Thickness 1.0÷2.0 mm 160 L/h
- No. 4 metres of O₂/AD TA 5x11 Ø int. 6 mm twin hose
- No. 1 Oxygen Pressure Reducer - 601D - 10 bar - complete with OX Safety Valve
- No. 1 Acetylene Pressure Reducer - 601 - 1,5 bar - complete with Safety Valve C2H₂

Code: G-ABA-BRAZEKIT-05

B-BRAZE[®] KIT | 14LT



B-BRAZE 14 litre - professional oxyacetylene welding kit with 14 litre high pressure cylinders

The Kit consists of:

- No. 1 Oxygen cylinder - Lt. 14 / Mc. 3
- No. 1 Acetylene cylinder - Lt. 14 / Kg. 2
- No. 1 Tank Trolley - Lt. 14 - O₂/Ac - Double
- No. 1 Light Alloy Handle 19-6 MHF+O₂/Acetylene Mixer H192E-MHF + Safety Valves
- No. 1 Welding Lance - Thickness 1.0÷2.0 mm 160 L/h
- No. 4 metres of O₂/AD TA 5x11 Ø int. 6 mm twin hose
- No. 1 Oxygen Pressure Reducer - 601D - 10 bar - complete with OX Safety Valve
- No. 1 Acetylene Pressure Reducer - 601 - 1,5 bar - complete with Safety Valve C2H₂

Code: G-ABA-BRAZEKIT-14

LANCE



01| Lance complete with FINE FLAME nozzle for B-TORCH

02| Complete lance with MEDIUM CYCLON FLAME nozzle for B-TORCH

Code: G-ABA-BTORCH-NOZ-01

Code: G-ABA-BTORCH-NOZ-02

ADAPTER



01| B-Adaptor - Adapter for B-Torch for use with cylinder with EU 7/16" thread

02| B-Adaptor - Adapter for B-Torch for use with cylinder with US thread CGA600

Code: G-ABA-BTOR-ADPTOR01

Code: G-ABA-BTOR-ADPTOR02

4-TIPS SET | MINIFLAME



Set of 4 welding tips for MINIFLAME.

Compatible with MaxiFlame Professional Soldering and Brazing Kits.

B-Braze® and G-Tec® line. Spare parts.

Code: G-ABA-PU-MIFL-001

4-TIPS SET | MAXIFLAME



Set 4 welding tips for MAXIFLAME.

(63-100-250-315). Compatible with MaxiFlame professional soldering and brazing kits.

B-Braze® and G-Tec® line. Spare parts

Code: G-ABA-PU-MXFL-001

BRAZING TORCH



Brazing Torch, complete with 2 m brazed tube, lance and tip 160. Compatible with MaxiFlame professional brazing and soldering kits.

B-Braze® and G-Tec® line. Spare parts

Code: G-ABA-TORB-MXFL-001

PRESSURE REGULATOR



Pressure regulator with pressure gauge for MAP gas cylinder. Compatible with MaxiFlame professional soldering and brazing kits.

B-Braze® and G-Tec® line. Spare parts

Code: G-ABA-RP-MAP

PRESSURE REGULATOR



Pressure regulator with pressure gauge for G-Oxygen cylinder. Compatible with MaxiFlame professional soldering and brazing kits.

B-Braze® and G-Tec® line. Spare parts

Code: G-ABA-RPM-OXY

B-MAP CYLINDER | 1LT



BOX
6PCS

B-M.A.P. is a special gas mixture with high calorific value and is suitable for welding and brazing work.

The flame temperature can reach up to 3,100°C and is 35% faster than propane gas.

The B-M.A.P. cylinder is made of steel (manufactured in accordance with EN 12205); its capacity is 1 litre and contains 420 grams of product - USA Valve CGA 600.

6-cylinder pack

Code: G-ABB-BMAP-1L-6

B-FLAME CYLINDER | 1LT



BOX
6PCS

B-FLAME is a gas mixture with added chemthane, which increases the heat of the flame. The flame temperature can reach up to 2,900°C. The B-FLAME cylinder is manufactured from aluminium. It has a capacity of 1 litre and contains 385 g of product.

Packs of 6 canisters

Code: G-ABB-BFLA-1L-6

G-OXYGEN | 1LT



BOX
6PCS

G-OXYGEN Oxygen cylinder 0.95 litre / 0.112 mc, compliant with EN ISO 11118:2015

In some cases it is useful to use limited capacity cylinder formats; for these applications GeneralGas proposes the G-TEC® line, non-refillable, disposable, 0.95 litre capacity cylinders.

Packs of 6 canisters

Code: G-GTX-OX-B-0,95L-6



GeneralGas
PASSIONATELY CORP.

Refrigerant
Leak Detector

DETECTION OF R134A - R1234YF - R410A
R404A - R407C - R32 - R502 - R600 - R290

KRYON® ELECTRONIC LEAK DETECTOR



Heated diode leak detector. Kryon® universal electronic leak detector for HFC and HFO refrigerant gases, 1234yf, nitrogen-hydrogen mixtures, R290 and R600a

Sensitivity 3 grams/year

CALIBRATION REPORT INCLUDED

Code: F-AF-AC-KRYONU-01

PROFESSIONAL LEAK DETECTION KIT



Professional Leak Detection Kit (Refrigeration and Air Conditioning) consisting of Kryon® HydroCheck 3 mc/3000 litre nitrogen - 5% hydrogen HP cylinder, K-Leak Tester and electronic leak detector

Code: G-GTX-N2H2-14L + F-AF-AL-KIT-N2H2RAC + F-AF-AC-KRYONU-01

K-LEAK TESTER N2

Nitrogen leak detector kit for Refrigeration & A/C systems (also suitable for connection to industrial cylinders)



K-LEAK TESTER N2H2

K-Leak Tester N2H2 - Nitrogen/Hydrogen Leak Detector Kit for Refrigeration & A/C Systems (also suitable for connection to industrial cylinders)



K-Leak Testers is an essential equipment that allows the pressurization of refrigeration and air conditioning systems; it works by simulating the operating pressure reached by RAC systems, while working at the standard conditions.

Using this equipment, the technician will be able to pressurize the system at the right pressure value, for a given refrigerant; the right operating pressure of each refrigerant is shown by the pressure gauge dial (each refrigerant is identified by different colours). Once the operating pressure is reached, the technician will be able to detect leakages in the systems (eg. caused by faulty components, badly executed flaring, defective welded joints) which will cause loss of pressure, detected by the pressure gauge included in the kit.

Code: F-AF-AL-KIT-N2-RAC

Code: F-AF-AL-KIT-N2H2RAC

NITROGEN G-NITROGEN



**BOX
6PCS**

6 G-NITROGEN Nitrogen cylinders 0.95 litres / 0.105 mc (105 litres)

- connection M10x1
- package 6 pieces

Code: G-GTX-AZ-B-0,95L-6

NITROGEN/HYDROGEN MIX



**BOX
6PCS**

6 G-MIX canisters - nitrogen - 5% hydrogen mixture (AZOIDRO) 0.95 litre/0.105 mc (105 litres)

- connection M10x1
- package 6 pieces

Code: G-GTX-N2H2-0,95L-6

HYDROCHECK CYLINDER | 5 LT



Kryon® HydroCheck nitrogen - 5% hydrogen HP cylinder - 5 lt / 1mc in cardboard box

Cylinder compliant legislation 99/36 / EC (TPED).

Filled with 1 cum (1000 liters) of nitrogen + 5% hydrogen blend for leak checking

Inner surface treated with peening process, outer surface coated with a primer layer, punching and testing in accordance with regulatory requirements.

Working pressure 200 bar, test pressure 300 bar.

Fitted with outlet valve N2 - UNI 11144 – female dia. 21,7 mm. x 1/14" RH

Cylinder and valve made in Italy.

Code: G-GTX-N2H2-5L | CYLINDER + CHARGE

HYDROCHECK CYLINDER | 14 LT



Kryon® HydroCheck nitrogen - 5% hydrogen HP cylinder - 14 lt / 3mc in cardboard box

Cylinder in compliance with regulation 99/36 / EC (TPED). Cylinder and valve Made in Italy

Filled with 3 cum (3000 liters) of nitrogen + 5% hydrogen blend for leak checking. Inner surface treated with peening process, outer surface coated with a primer layer, punching and testing in accordance with regulatory requirements.

Working pressure 200 bar, test pressure 300 bar.

Fitted with outlet valve N2 - UNI 11144 – female dia. 21,7 mm. x 1/14" RH

Cylinder and valve made in Italy.

Code: G-GTX-N2H2-14L | CYLINDER + CHARGE

2-WAY ANALOGIC MANIFOLD FOR R744 (CO2)



High (160bar) and low (100bar) Ø 80 mm glycerine pressure gauge with external adjustment screw, with 1/4" connections.

Built to standard to withstand and detect the high pressures typical of carbon dioxide.

Code: F-AF-GM-R744-160BAR

3 HOSE KIT FOR CO2 R744



Set of 3 1/4" stainless steel braided hoses for CO2 (R744), length 150 cm, working pressure 200 bar (burst pressure 800 bar)

Features AP piping for CO2 R744

- Stainless steel outer diameter: 0.18 mm Braided by 4 wires
- Cross section: PTFE tube: 7 mm x 5 mm / Sandwich: 0.5 mm
- Outer diameter 9 mm
- Thread 7/16-20UNF (1/4"SAE)
- Working pressure 200 bar
- Burst pressure 800 bar

Code: F-AF-RE-R744CO2-1-4

MEGAFLOW SPEEDKIT-R



Appion USA's MegaFlow SpeedKit-R accelerates refrigerant gas recovery and simplifies the connection of multiple simultaneous connections to any refrigerant gas recovery unit.

The kit includes:

- (1) MegaFlow hose 3/8in - 6ft (3/8in FL to 1/4in FL) blue
- (1) MegaFlow Hose 3/8in - 6ft (3/8in FL to 1/4in FL) red
- (1) MegaFlow Hose 3/8in - 4ft (1/4in FL to 1/4in FL) Yellow
- (1) MegaFlow Hose 3/8in - 1ft (1/4in FL to 1/4in FL - 45 degrees) Blue
- (2) MegaFlow Valve Core Removal Tool - 1/4in
- (2) MegaFlow Valve Core Removal Tool - 5/16in
- (1) MFL 45° swivel fitting 1/4in with screen
- (1) MegaFlow Speed-Y 1/4in
- (1) MegaFlow SpeedKit Carrying Bag

Code: F-AF-RE-AP-SPDKIT-R

CHARGE T-CONNECTOR



MegaSeal Low-Loss Charging T-Fitting - inlet 1/4 female, double outlet 1/4 male - original Appion USA (CTEE14)

Use the MegaSeal Low-Loss Charging-T to measure the refrigerant during the charging process. The side port allows easy connection of a digital gauge assembly to monitor system pressures throughout the process.

Code: F-AF-AL-APP-CTEE14

CHARGE T-CONNECTOR



MegaSeal Low-Loss Charging T-Fitting - inlet 5/16 female, double outlet 1/4 male - original Appion USA (CTEE516)

Use the MegaSeal Low-Loss Charging-T to measure the refrigerant during the charging process. The side port allows easy connection of a digital gauge assembly to monitor system pressures throughout the process.

Code: F-AF-AL-APP-CTEE516

KIT NO. 3 CHARGING HOSES



Kit no. 3 charging hoses R410A/R32 (red + yellow + blue) SAEJ2196/ EN1736, length 150 cm.
5/16" SAE connection 45° side with ball valve and depressor, 1/4" SAE connection straight side

Code: F-AF-RE-TU5_16-45-V

KIT NO. 3 CHARGING HOSES



Kit no. 3 charging tubes (red + yellow + blue), length 150 cm. - with 45° side valve - 1/4" SAE connections on both sides, with ball valve and depressor

Code: F-AF-RE-TU1_4-45-V

KIT NO. 3 CHARGING HOSES



High quality PRO line charging hoses, entirely made in Italy, with 45° side valve, 1/4" connections on both sides, equipped with intermediate ball valve and depressor. Length 150 cm.

Code: F-AF-RE-TU1_4-45-K | Set of 3 charging hoses (R+B+Y)

F-AF-RE-TU1_4-45-R | Red hose

F-AF-RE-TU1_4-45-B | Blue hose

F-AF-RE-TU1_4-45-Y | Yellow hose

KIT NO. 3 CHARGING HOSES



High quality PRO line charging pipes, entirely made in Italy, with 45° side valve, 5/16" connections on both sides, equipped with intermediate ball valve and depressor. Length 150 cm.

Code: F-AF-RE-TU5_16-45-K | Set of 3 charging hoses (R+B+Y)

F-AF-RE-TU5_16-45-R | Red hose

F-AF-RE-TU5_16-45-B | Blue hose

F-AF-RE-TU5_16-45-Y | Yellow hose

Y-CONNECTOR



High-Speed Y Fitting for deep vacuum and fast recovery MegaFlow Speed-Y - 1/2 female inlet and dual 3/8 male outlet - original Appion USA

The 1/2" MegaFlow Speed-Y fitting features a large internal diameter for full, unrestricted flow and is rated for 20 micron vacuum and high-pressure refrigerants such as R410A.

The Speed-Y simplifies the connection of multiple hoses to a single point without the inconvenience of a traditional manifold.

Code: F-AF-PV-APP-1-2_3-8

Y-CONNECTOR



High-Speed Y Fitting for deep vacuum and fast recovery - MegaFlow Speed-Y.

Inlet 3/8 female and double 3/8 male outlet - original Appion USA

Code: F-AF-PV-APP-3-8_3-8

Y-CONNECTOR



High-Speed Y Fitting for deep vacuum and fast recovery - MegaFlow Speed-Y

1/4 female inlet and dual 3/8 male outlet - original Appion USA

Code: F-AF-PV-APP-1-4_3-8

CORE DEPRESSOR TOOL 1/4"



Vacuum-Rated Core Depressor Tool (shut-off valve) 1/4" for Schrader valves - rated vor vacuum up to 20 microns

1/4 female to 1/4 male connections - original Appion USA (CCT14)

Code: F-AF-AL-APP-SO-1-4

CORE DEPRESSOR TOOL 5/16"



Vacuum-Rated Core Depressor Tool (shut-off valve) 5/16" for Schrader valves - rated vor vacuum up to 20 microns

5/16 female to 1/4 male connections - original Appion USA (CCT516)

Code: F-AF-AL-APP-SO-5-16

KIT NO. 1 HOSE FOR VACUUM PUMPS



Internal diameter 3/4" length 1.50 metre (with adapters and accessories). It provides 80 times faster evacuation than normal hoses with an inner diameter of 1/4", and up to 6 times faster than other "vacuum-rated" hoses available on the market.

Contains:

- No. 1 special TruBlu vacuum hose 1.5 metres long (code A10739MM-1.5)
- No. 1 stainless steel clamp (code 10756)
- No. 1 aluminium clamp (code 10752)
- No. 1 set of 4 spare O-rings (part number A10758-4)
- No. 1 KF-16 to 1/4" adapter (part number A10788)
- No. 1 adapter KF-16 to 3/8" (FFL part number A10790)
- No. 1 adapter KF-16 to 1/2" (FFL code A10789)
- No. 1 Schrader valve extractor (part no. 10735)
- No. 1 transportable case (code A10765)

Code: F-AF-PV-TUBVUO-002

KIT NO. 2 HOSES FOR VACUUM PUMPS



Internal diameter $\frac{3}{4}$ " length 1.50 metre (with adapters and accessories). It provides 80 times faster evacuation than normal hoses with an inner diameter of $\frac{1}{4}$ ", and up to 6 times faster than other "vacuum-rated" hoses available on the market.

Contains:

- No. 2 special TruBlu vacuum hoses 1.5 metres long (code A10739MM-1.5)
- No. 2 stainless steel clamps (code 10756)
- No. 1 aluminium clamp (code 10752)
- No. 1 set of 4 spare O-rings (part number A10758-4)
- No. 1 KF-16 to $\frac{1}{4}$ " adapter (part number A10788)
- No. 1 adapter KF-16 to $\frac{3}{8}$ " (FFL part number A10790)
- No. 1 adapter KF-16 to $\frac{1}{2}$ " (FFL code A10789)
- No. 1 Schrader valve extractor (code 10735)
- No. 1 KF-16 tee (code 10749)
- No. 1 transportable case (code A10765)

Code: F-AF-PV-TUBVUO-001

VACUUM PUMP HOSE



Specific tubing for vacuum pumps (black)

- SAEJ2196/ EN1736
- length 150 cm.
- connections $\frac{3}{8}$ SAE female
- operating pressure 31 bar, test pressure 158 bar

Code: F-AF-PV-TUBVUO-003

HOSES AND FITTING KITS



The MegaFlow SpeedKit-V simplifies the connection of several simultaneous connections.

The kit contains

(1) $\frac{3}{8}$ " FL Speed-Y and (1) $\frac{1}{2}$ " FL Speed-Y. Both Speed-Ys are equipped with (2) $\frac{3}{8}$ " MFL fittings and are rated for 20 micron vacuum. Between the two Speed-Ys, the SpeedKit-V works with most vacuum pumps.

Code: F-AF-PV-AP-SPDKIT-V

ADAPTER WITH VALVE



**1/4' SAE RH female valve (adapter) (right) -
1/4' SAE RH male outlet (right), with depressor.**

Suitable for R134a, R407C, R404A, R422D (also for KryoSmart R134a, R407C, R422D 1.1 and 2.5 litre capacity cylinders).

Code: F-AF-AL-VA-1/4-1/4

ADAPTER WITH VALVE



Valve (adapter) female 5/16' SAE RH (right)
Male outlet 1/4' SAE RH (right), with depressor.

**Suitable for R410A (also suitable for 1.1 and 2.5
litre KryoSmart R410A cylinders)**

Code: F-AF-AL-VA-5/16-1/4

ADAPTER WITH VALVE



Female valve 1/2' ACME LH (left)
Male outlet 1/4' SAE RH (right).

**Suitable for R32, R290, R600a and 1 litre HFO 1234yf
cylinders**

Code: F-AF-AL-VA-12A-U1/4

ADAPTER (REDUCTION)



**Adapter (reduction) input 5/16' SAE Female output
1/4' SAE Male**

Code: F-AF-AL-RID-1_4SAE

ELECTRONIC SCALE



High precision electronic scale, capacity up to 7 kg, reading in grams and ounces - suitable for 1 and 2.5 litre refillable refrigerant gas canisters

Suitable for canisters of R134a, R404A, R407C, R410A, R32 etc.

Code: F-AF-SM-BIL-GAS-7K

UNIVERSAL HOLDER



Universal holder for refillable canisters suitable for R134a, R404A, R407C, R410A etc.

Description:

- 1/4" SAE female connection
- plate diameter: 8.5 cm.

Supplied with:

- No. 1 female-female capillary tube 1/4" x 1/4"
- No. 1 female-female capillary tube 1/4" x 5/16"
- No. 1 straight reduction fitting 1/4" male x 5/16" female

Code: F-AF-SM-SUP-GAS-7K

HIGH PRECISION REFRIGERANT CHARGING SCALE



High precision Refrigerant Charging Scale GK-Tools, packaged in a custom molded plastic case - weighing capacity 5 kg +/- 1 gram, with 3 adapters (outlet female 7/16 20-UNF for connection to 1-liter R600a-R290 cylinders, outlet female 1/4 SAE RH and outlet female 5/16 SAE RH for connection to 1-liter and 2,5-liter R134a, R410A, R407C, R32, R422D cylinders)

Specifications:

- Capacity: 5000 grams
- Sensitivity: 1 gram
- Charging Capability: up to 1 gram accuracy
- Dimensions: (140 (w) x 185 (l) x 40 (h) mm)
- Power Source: 3 x AAA 1.5v battery
- Fitting: 1/4" SAE M flare fitting with check valve

Code: F-AF-SM-BIL-GKT-2AD

VALVE ADAPTER



W21.8-1/14 LH female input
(left) - 1/4 SAE RH male output
(right)

W21.7-1/14 RH female input
(right) - 1/4 SAE RH male output
(right)

Code: F-AF-AL-AD-21,8-001

Code: F-AF-AL-AD-14W21,7



Adapter for female valve 1/2' ACME
LH, outlet 1/4' SAE male RH

**(R32, SOLSTICE L40X,
HF01234yf)**

Code: F-AF-AL-AD-16ACME01



R410A - Valve adaptor female
W 21.7x1/14 RH (right) outlet
5/16 SAE RH (right)

**Valve adapter 1/4 SAE female
right**, outlet 5/16 male right
(R410A)

Code: F-AF-AL-AD-516W21,7

Code: F-AF-AL-KIT-N2-05

RETENTION CONTROL VALVE (SHUT-OFF)



Shut-off valve for R410A
- female inlet 5/16' SAE
RH (right) - male outlet
1/4' SAE RH (right) - with
depressor.

Code: F-AF-AL-VA-SH-002



Shut-off valve for
R404A, R134a, R407C
- female inlet 1/4' SAE
RH (right) - male outlet
1/4' SAE RH (right) - with
depressor.

Code: F-AF-AL-VA-SH-003



Shut-off valve for R32,
female inlet 1/2' ACME
(left), male outlet 1/4'
SAE RH (right), with
depressor.

Code: F-AF-AL-VA-SH-005

SPLITTY



Splitty - Reusable cover for Cleaning Split A/C (indoor units) **pack of n° 1 piece**

Splitty is a cover made of nylon, PVC and a completely waterproof plasticiser, which ensures total protection of the area around the split during cleaning operations carried out with battery-operated cleaners and cleaners.

Code: F-AF-AL-COVER-01

SPRAYER AND FOAMER



C2BW electric sprayer and foamer, portable battery-powered rechargeable compatible with acid and alkaline base cleaners

Code: F-AF-LA-WIP-C2BW

UPPY REUSABLE COVER



Reusable cover for cleaning ceiling-mounted A/C units (indoor units) - UPPY - complete with carrying bag and case. The UPPY cover is specifically designed to protect the environment during cleaning operations with a pressure washer. Made of waterproof material, it effectively captures waste water and cleaning agents. The adjustable anchoring system and 2.8 m discharge hose make it versatile and suitable for different split configurations.

Code: F-AF-AL-COVER-02

PORTABLE COMPRESSOR



Portable rechargeable battery compressor with USB cable and cigarette lighter socket

Flow rate 20 litres/minute, max. pressure 10.8 bar, battery capacity 6000mAh 12V DC, with LED torch (high-brightness white and flashing red) and power bank function, 4 adapters supplied (for inflating car tyres, motorbikes, balloons, air mattresses)

Code: F-AF-AL-COMP-816

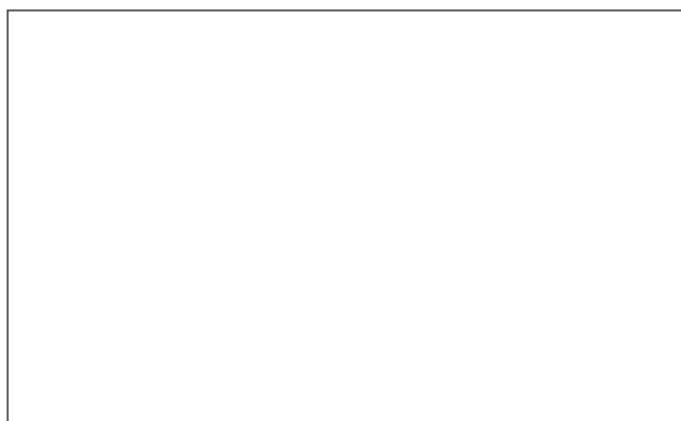
NOTE



50 years of passion,
innovation and sustainability:
**together towards new
horizons.**



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