# CATALOGUE HVAC/R EN







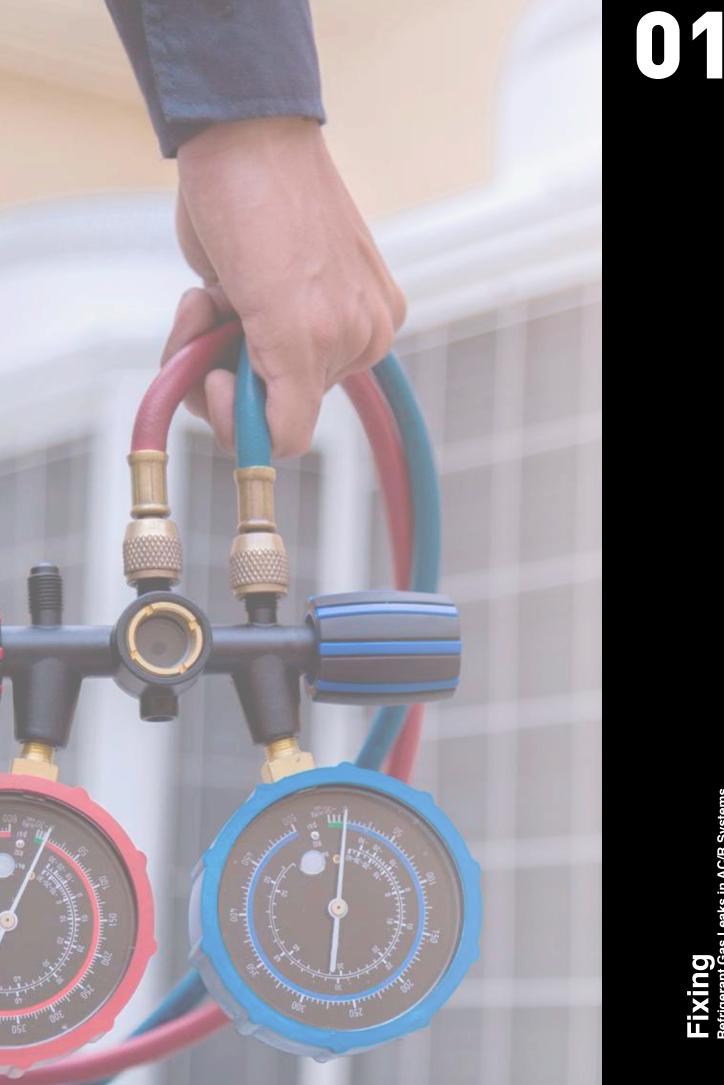
PANTONE

# **Environmental Sustainability.** Not a destination. A journey to experience.

Awarded as one of the 100 most sustainable Italian companies of 2021 by Forbes, Errecom's 2022 goal is becoming even more sustainable.

Increase in eco-friendly products in support of a circular economy. Replacing plastic packaging with recycled cardboard. Use of recycled plastic when the formulation allows it. Dematerialisation of technical and information material.





# **Fixing** Refrigerant Gas Leaks in AC/R Systems

# 

- Permanently repairs leaks up to 0.3 mm on rubber and metal components of AC/R systems.
- Polymer-free: does not react with moisture and oxygen. Does not clog AC/R systems' components.
- Safe for metal and rubber components of AC/R systems.
- Visible when exposed to any UV lamp.
- Non-flammable, non-irritating, safe for the operator.
- Significantly reduces compressor noise.
- Compatible with all refrigeration lubricants.
- Compatible with all refrigerant gases, including CFC, HFC, HCFC, R32 and HFO, except R717 (ammonia).
- The professional choice for preventive maintenance.

ArtNr.	Adapters included	€	8	•
TR1163.AL.01.S2	No adapters	-	30	5400
TR1163.AL.H4.S2	1/4 SAE	-	30	5400
TR1163.AL.H8.S2	5/16 SAE	-	30	5400
TR1163.AL.H3.S2	1/4 SAE + 5/16 SAE	-	30	5400

#### Dosage:

1 cartridge (6 mL - 0.2 fl oz) for systems up to 21 kW or 700 mL (23.6 fl oz) of compressor oil.







6 ml

\*\* 80x120xH200 cm

# Cool-Shot Ultra Performance Enhancer for AC/R Systems

- Restores and maintains the original efficiency of AC/R systems.
- Removes oil fouling.
- Restores heat exchange in refrigeration lines.
- Increases the efficiency of the compressor lubricant without causing chemical changes.
- Extends compressor life and reduces its noise.
- Reduces the maintenance costs of AC/R systems.
- Reduces the energy consumption of the system and CO<sub>2</sub> emissions.
- Does not alter the refrigerant gas.
- Safe for all air conditioning and refrigeration systems.
- Visible when exposed to any UV lamp.
- Compatible with all refrigeration lubricants.
- Compatible with all refrigerant gases, including CFC, HFC, HCFC, R32 and HFO, except R717 (ammonia).
- The professional choice for preventive maintenance.

ArtNr.	Adapters included	€	8	
TR1170.AL.01.S2	No adapters	-	30	5400
TR1170.AL.H4.S2	1/4 SAE	-	30	5400
TR1170.AL.H8.S2	5/16 SAE	-	30	5400
TR1170.AL.H3.S2	1/4 SAE + 5/16 SAE	-	30	5400

#### Dosage:

1 cartridge (6 mL - 0.2 fl oz) for systems up to 21 kW or 700 mL (23.6 fl oz) compressor oil.













# Anti-moisture Additive

- Permanently eliminates the formation of moisture inside AC/R systems thanks to the special chemical formula that stabilises the refrigeration lubricant.
- Does not alter refrigerant gases.
- Safe for gaskets and system components, and the compressor.
- Does not weaken the power of the system, nor does it alter its performance.
- Compatible with all refrigeration lubricants.
- Compatible with all refrigerant gases, including CFC, HFC, HCFC, R32 and HFO, except R717 (ammonia).
- The professional choice for preventive maintenance: eliminating moisture, it inhibits acid formation over time.

ArtNr.	Adapters included	€	8	<b>*</b>
TR1174.AL.01.S2	No adapters	-	30	5400
TR1174.AL.H4.S2	1/4 SAE	-	30	5400
TR1174.AL.H8.S2	5/16 SAE	-	30	5400
TR1174.AL.H3.S2	1/4 SAE + 5/16 SAE	-	30	5400

#### Dosage:

1 cartridge (6 mL - 0.2 fl oz) for systems up to 21 kW or 700 mL (23.6 fl oz) compressor oil.









**1) ↔ 6** ml





# No-Acid Ultra

#### Acid Neutraliser Additive

- Eliminates acid residues (caused over time by refrigeration lubricants, refrigerants moisture, and compressor breakdown) from AC/R systems.
- Prevents compressor breakdown.
- Safe for system components.
- Compatible with all refrigeration lubricants.
- Compatible with all refrigerant gases, including CFC, HFC, HCFC, R32 and HFO, except R717 (ammonia).
- The professional choice for preventive maintenance: it prevents acid from developing over time.

ArtNr.	Adapters included	€	8	<b>*</b>
TR1175.AL.01.S2	No adapters	-	30	5400
TR1175.AL.H4.S2	1/4 SAE	-	30	5400
TR1175.AL.H8.S2	5/16 SAE	-	30	5400
TR1175.AL.H3.S2	1/4 SAE + 5/16 SAE	-	30	5400

#### Dosage:

1 cartridge (6 mL - 0.2 fl oz) for systems up to 21 kW or 700 mL (23.6 fl oz) compressor oil.









# Antioxidant-Ultra

Antioxidant and Anticorrosive Additive

- Creates a protective barrier on metals such as copper or aluminium, blocking and preventing oxidation and corrosion.
- Does not alter the refrigerant gas.
- Stabilises the refrigerant gas and the refrigeration lubricant.
- Safe for compressor, gaskets and system components.
- Does not weaken the power of the system and does not alter its performance.
- Does not decrease heat exchange.
- Does not accumulate in the moisture filter.
- Compatible with all refrigeration lubricants.
- Compatible with all refrigerant gases, including CFC, HFC, HCFC, R32 and HFO, except R717 (ammonia).

ArtNr.	Adapters Included	€	¥	•
TR1177.AL.01.S2	No adapters	-	30	5400
TR1177.AL.H4.S2	1/4 SAE	-	30	5400
TR1177.AL.H8.S2	5/16 SAE	-	30	5400
TR1177.AL.H3.S2	1/4 SAE + 5/16 SAE	-	30	5400

#### Dosage:

1 cartridge (6 mL - 0.2 fl oz) for systems up to 21 kW or 700 mL (23.6 fl oz) compressor oil.







- Restores the optimal working conditions of air conditioning and refrigeration systems after replacing the compressor or flushing the circuit.
- Eliminates and neutralises particles and agents that are potentially hazardous to the newly flushed system components. These include moisture, heavy flushing fluid residues, and contaminants such as hydrofluoric, hydrochloric and carbonic acids that develop as a result of A/C compressor breakage.
- Eliminates the risk of circuit damage after the compressor replacement or circuit flushing.
- Safe for AC/R system components.
- Compatible with all refrigeration lubricants.
- Compatible with all refrigerant gases, including CFC, HFC, HCFC, R32 and HFO, except R717 (ammonia).

ArtNr.	Description	€	8	٠
TR1162.AL.01.S2	6 mL Cartridge	-	30	5400
TR1162.L.01.S2	12 mL Cartridge	-	30	-
TR1162.C.01.S2	30 mL Cartridge	-	24	-
TR1162.QC.01.S2	45 mL Cartridge	-	24	-
TR1162.E.01.S2	60 mL Cartridge	-	24	-

#### Dosage:

Amount of Compressor+ to be added in the new compressor lubricant.

Compressor+	6 mL	12 mL	30 mL	45 mL	60 mL		
Lubricant	up to 400 mL	up to 800 mL	up to 2 L	up to 3 L	up to 4 L	<b>^ 6</b>	ml

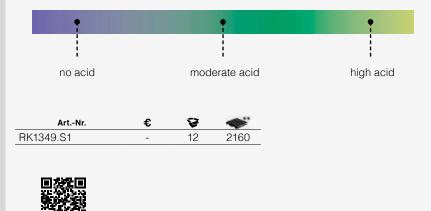


# Fixing Refrigerant Gas Leaks in AC/R Systems

# Acid-Test

Test to Verify the Presence of Acid in Compressor Oil

- Universal: works with all refrigeration lubricants (POE ABZ PAO PAG PVE Mineral).
- Easy to use: just add a few drops of lubricant, shake the bottle and wait a few moments to see the result.
- Quick result in a few seconds.
- Ideal to perform regular preventive maintenance of the compressor.
- Non-flammable and non-toxic.
- Contains 4 test kits.
- Clear and accurate results. The colour indicates the pH range:





# AC/R Restoring Treatment

Restoring Treatment to permanently repair Refrigerant Gas Leaks of AC/R Systems

- Permanently blocks the development of chemical reactions that would cause leaks, preserving the efficiency of air conditioning or refrigeration systems over time.
- Specifically:
  - eliminates moisture;
  - neutralises acid residues;
  - removes oil fouling;
  - permanently repairs refrigerant gas leaks;
  - restores the original efficiency of the system.
- Compatible with all refrigeration lubricants.
- Compatible with all refrigerant gases, including CFC, HFC, HCFC, R32 and HFO except R717 (ammonia).
- 4 steps: 4 cartridges (24 mL 0.8 fl oz) for systems up to 21 kW or 700 mL (23.6 fl oz) compressor oil.
- Ideal to perform regular preventive maintenance.
- Recommended for restoring the efficiency of unkept systems.

ArtNr.	Adapters Included	€	8	
RK1421.S2	No adapters	-	20	1120
RK1421.H4.S2	1/4 SAE	-	20	1120
RK1421.H8.S2	5/16 SAE	-	20	1120
RK1421.H3.S2	1/4 SAE + 5/16 SAE	-	20	1120





# Fixing Refrigerant Gas Leaks in AC/R Systems

Tool for injecting Additives into the AC/R System

- Allows additives to be added to AC/R systems using refrigerant gas.
- Pump down not required.
- Eco friendly: re-usable.
- Safe for technicians and systems: check valve included.

ArtNr.	Description	€	8	•
IN1030.R1	1/4 SAE	-	-	-
IN1031.R1	5/16 SAE	-	-	-





# Tool for inserting additives through AC/R system pressure

Connected directly to the high side port and Easy Inject, Easy Hose enables additives to be injected into AC/R systems without manifolds, but rather using the pressure of the system itself.

ArtNr.	Description	€	8	•
TB5164.R2	1/4 SAE	-	-	-
TB5165.R2	5/16 SAE	-	-	-



6 ml



# Easy-Inject + Additives

#### Easy-Inject + Extreme Ultra

ArtNr.	Description	€	8	
RK1384	Easy-Inject 1/4 SAE + Extreme Ultra	-	-	-
RK1385	Easy-Inject 5/16 SAE + Extreme Ultra	-	-	-

#### Easy-Inject + Cool-Shot Ultra

ArtNr.	Description	€	8	•
RK1404	Easy-Inject 1/4 SAE + Cool-Shot Ultra	-	-	-
RK1416	Easy-Inject 5/16 SAE + Cool-Shot Ultra	-	-	-



# Fixing Refrigerant Gas Leaks in AC/R Systems



- Ultra-fast: takes just 20 seconds to repair refrigerant gas leaks up to 1 mm.
- Pressure resistance:
   20 seconds to fix up to 20 bar (290 psi)
   20 minutes to fix up to 50 bar (725 psi)
- Resists up to 250°C (482°F).
- Easy to use: STEP 1 liquid with brush; STEP 2 powder.
- Can be used on metal and plastic components.
- Can be applied on flat, curved, horizontal or vertical surfaces.
- Ideal for urgent repairs.
- Ideal for repairs where welding cannot be carried out.
- Permanent result.
- Visible with any UV lamp: it allows you to pinpoint and check the condition of previous repairs.

ArtNr.	€	8	
TR1180.01	-	30	-







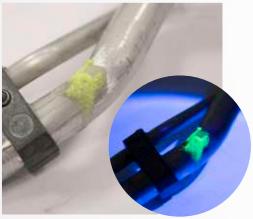
- Repairs refrigerant gas leaks up to 5 mm.
- Ideal for urgent repairs.
- Perfectly adheres to metal (copper, aluminium, and steel) and rubber components.
- Can be used on thermoplastic pipes.
- Resists refrigeration lubricant (mineral, POE, PAG, PAO and Alkylbenzene).
- Resists refrigerant gases (CFC, HFC, HCFC, CO2, including R32 and R1234yf).
- Resists additives and flushing fluids, including chlorinated ones.
- Temperature range use: -100°C to +270°C (-148 °F to 518 °F).
- Can be used on either the high or low side of HVAC/R systems.
- Different pressure resistance depending on the size of the leak:
   5 mm 40 box (500 pci) 2 mm 50 box (725 pci) 1 mm
- 5 mm = 40 bar (580 psi) 2 mm = 50 bar (725 psi) 1 mm = 57 bar (826 psi).
  Easy to use: it can be easily mixed by using two fingers and, once applied, it permanently repairs the leak in 4-5 hours.
- There is no risk of product dispersion in AC/R systems.
- Once dried, it can be easily sanded or removed.

#### EXTERNAL P

is the two-component putty leak stop specially formulated for plastic components of air conditioning and refrigeration systems and plumbing applications.

ArtNr.	Description	€	8	
TR1166.01	External	-	60	10800
TR1172.01	External P	-	60	10800













It has the same characteristics as Extreme Ultra.

#### Dosage:

1 cartridge (30 mL - 1 fl oz) for systems up to 15 kW or 500 mL (16.9 fl oz) of compressor oil. 1 cartridge (42 mL - 1.4 fl oz) for systems up to 21 kW or 700 mL (23.6 fl oz) of compressor oil. 1 cartridge (60 mL - 2 fl oz) for systems up to 30 kW or 1 L (33.8 fl oz) of compressor oil.

ArtNr.	Description	€	¥	-
TR1062.C.01.S2	1-piece pack without adapters	-	24	1872
TR1062.C.H3.S2	1-piece pack with 1/4 and 5/16 SAE adapters	-	24	1872
TR1062.C2.H3.S2	2-piece pack with 1/4 and 5/16 SAE adapters	-	-	-
42 mL Cartridge				
ArtNr.	Description	€	8	-
TR1062.R.01.S2	1-piece pack without adapters		24	1872
TR1062.R.H3.S2	1-piece pack with 1/4 and 5/16 SAE adapters	-	24	1872
60 mL Cartridge				
ArtNr.	Description	€	8	
TR1062.E.01.S2	1-piece pack without adapters	-	24	1872
TR1062.E.H3.S2	1-piece pack with 1/4 and 5/16 SAE adapters	-	24	1872
	<b>OEM</b>		RAE 97	

# 30 42 60 ml

30 42 60 ml

Cool-Shot Performance Enhancer for AC/R Systems

It has the same characteristics as Cool-Shot Ultra.

#### Dosage:

1 cartridge (30 mL - 1 fl oz) for systems up to 15 kW or 500 mL (16.9 fl oz) of compressor oil. 1 cartridge (42 mL - 1.4 fl oz) for systems up to 21 kW or 700 mL (23.6 fl oz) of compressor oil.

1 cartridge (60 mL - 2 fl oz) for systems up to 30 kW or 1 L (33.8 fl oz) of compressor oil.

#### 30 mL Cartridge

ArtNr.	rtNr. Description					
TR1122.C.01.S2	1-piece pack without adapters	-	24	1872		
TR1122.C.H3.S2	1-piece pack with 1/4 and 5/16 SAE adapters	-	24	1872		
TR1122.C2.H3.S2	2-piece pack with 1/4 and 5/16 SAE adapters	-	-	-		
42 mL Cartridge	Description	£	2			

AIL-NI.	Description	÷		
TR1122.R.01.S2	1-piece pack without adapters	-	24	1872
TR1122.R.H3.S2	1-piece pack with 1/4 and 5/16 SAE adapters	-	24	1872
60 ml Cartrido				

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ArtNr.	Description	€	8	•
TR1122.E.01.S2	1-piece pack without adapters	-	24	1872
TR1122.E.H3.S2	1-piece pack with 1/4 and 5/16 SAE adapters	-	24	1872



intertek TESTED



# Anti-moisture Additive

It has the same characteristics as Super-Dry Ultra.

#### Dosage:

1 cartridge (30 mL - 1 fl oz) for systems up to 15 kW or 500 mL (16.9 fl oz) of compressor oil. 1 cartridge (42 mL - 1.4 fl oz) for systems up to 21 kW or 700 mL (23.6 fl oz) of compressor oil. 1 cartridge (60 mL - 2 fl oz) for systems up to 30 kW or 1 L (33.8 fl oz) of compressor oil.

30 mL Cartridge				
ArtNr.	Description	€	8	•
TR1132.C.01.S2	1-piece pack without adapters	-	24	1872
TR1132.C.H3.S2	1-piece pack with 1/4 and 5/16 SAE adapters	-	24	1872
TR1132.C2.H3.S2	2-piece pack with 1/4 and 5/16 SAE adapters	-	-	-
42 mL Cartridge				
ArtNr.	Description	€	8	
TR1132.R.01.S2	1-piece pack without adapters	-	24	1872
TR1132.R.H3.S2	1-piece pack with 1/4 and 5/16 SAE adapters	-	24	1872
60 mL Cartridge				
ArtNr.	Description	€	8	
TR1132.E.01.S2	1-piece pack without adapters	-	24	1872



# **30 42 60** ml

# Acid Neutraliser Additive

It has the same characteristics as No-Acid Ultra.

**Dosage: The amount of NO-ACID to insert into the AC/R system depends on the acid detected.** It's recommend using Errecom's ACID-TEST to determine the best amount of NO-ACID ULTRA to use in all AC/R systems.

#### 30 mL Cartridge

ArtNr.	Description	€	8	-
TR1124.C.01.S2	1-piece pack without adapters	-	24	1872
TR1124.C.H3.S2	1-piece pack with 1/4 and 5/16 SAE adapters	-	24	1872
TR1124.C2.H3.S2	2-piece pack with 1/4 and 5/16 SAE adapters	-	-	-

42 mL Cartridge				
ArtNr.	Description	€	8	•
TR1124.R.01.S2	1-piece pack without adapters	-	24	1872
TR1124.R.H3.S2	1-piece pack with 1/4 and 5/16 SAE adapters	-	24	1872
60 mL Cartridge				
ArtNr.	Description	€	¥	-
TR1124.E.01.S2	1-piece pack without adapters	-	24	1872
TR1124.E.H3.S2	1-piece pack with 1/4 and 5/16 SAE adapters	-	24	1872

30 42 60 ml



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Spr Dy

Super-Dry



# Fixing Refrigerant Gas Leaks in AC/R Systems

# **Extreme Ultra White**

Leak Stop for Refrigerators

- It has the same characteristics as Extreme Ultra.
- Specific for compressors of domestic and industrial refrigerators, wine cellars, vending machines, ice cream display cabinets, etc., operating with R600, R290 and R134a.

Dosage: 1 dose (6 mL - 0.2 fl oz) per 200 mL (6.7 fl oz) of compressor oil.

#### Cartridge:

ArtNr.	Description	€	8	
TR1176.AL.01.S2	No adapters	-	30	5400
TR1176.AL.H4.S2	1/4 SAE	-	30	5400

Aerosol Can with Push&Fill System: Available in three different formats, each compatible with a specific refrigerant: R600, R290 or R134a.

ArtNr.	System	Description	€	8	•
PF1185.Y.01.S2	R600	No adapters	-	25	5400
PF1185.Y.H4.S2	R600	1/4 SAE	-	25	5400
PF1186.Y.01.S2	R290	No adapters	-	25	5400
PF1186.Y.H4.S2	R290	1/4 SAE	-	25	5400
PF1187.Y.01.S2	R134a	No adapters	-	25	5400
PF1187.Y.H4.S2	R134a	1/4 SAE	-	25	5400





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# Cool-Shot Ultra White Performance Enhancer for Refrigerators

- It has the same characteristics as Cool-Shot Ultra.
- Specific for compressors of domestic and industrial refrigerators, wine cellars, vending machines, ice cream display cabinets, etc., operating with R600, R290 and R134a.

Dosage: 1 dose (6 mL - 0.2 fl oz) per 200 mL (6.7 fl oz) of compressor oil.

#### Cartridge:

ArtNr.	Description	€	8	۳.
TR1181.AL.01.S2	No adapters	-	30	5400
TR1181.AL.H4.S2	1/4 SAE	-	30	5400

**Aerosol Can with Push&Fill System:** Available in three different formats, each compatible with a specific refrigerant: R600, R290 or R134a.

ArtNr.	System	Description	€	F	*
PF1188.Y.01.S2	R600	No adapters	-	25	5400
PF1188.Y.H4.S2	R600	1/4 SAE	-	25	5400
PF1189.Y.01.S2	R290	No adapters	-	25	5400
PF1189.Y.H4.S2	R290	1/4 SAE	-	25	5400
PF1190.Y.01.S2	R134a	No adapters	-	25	5400
PF1190.Y.H4.S2	R134a	1/4 SAE	-	25	5400





Super-Dry Ultra White

Anti-moisture Additive for Refrigerators

- It has the same characteristics as Super-Dry Ultra.
- Specific for compressors of domestic and industrial refrigerators, wine cellars, vending machines, ice cream display cabinets, etc., operating with R600, R290 and R134a.

Dosage: 1 dose (6 mL - 0.2 fl oz) per 200 mL (6.7 fl oz) of compressor oil.

ArtNr.	Description	€	¥	۳
TR1182.AL.01.S2	No adapters	-	30	5400
TR1182.AL.H4.S2	1/4 SAE	-	30	5400





# **No-Acid Ultra White** Acid Neutraliser Additive for Refrigerators

- It has the same characteristics as No-Acid Ultra.
- Specific for compressors of domestic and industrial refrigerators, wine cellars, vending machines, ice cream display cabinets, etc., operating with R600, R290 and R134a.

Dosage: 1 dose (6 mL - 0.2 fl oz) per 200 mL (6.7 fl oz) of compressor oil.

ArtNr.	Description	€	8	*
TR1183.AL.01.S2	No adapters	-	30	5400
TR1183.AL.H4.S2	1/4 SAE	-	30	5400













#### UV Leak Detector Dye for Air Conditioning and Refrigeration Systems

- Quickly and precisely locates refrigerant gas leaks in AC/R systems. Once inserted into the system, the product emerges from the leak and is visible when exposed to any UV lamp.
- Compatible with all lubricants and refrigerant gases including CFC, HFC, HCFC and HFO.
- Does not contain solvents.
- Does not alter the chemical properties of the lubricant and does not damage AC/R systems.
- 1 cartridge (7.5 mL 0.25 fl oz) per 500 mL (16.9 fl oz) of compressor lubricant.
- Dye detected labels included.

#### 12-cartridges pack (7,5 mL each)

• •				
ArtNr.	Adapters included	€	¥	
TR1068.A12.01.S2	No adapters	-	12	672
TR1068.A12.H4.S2	1/4 SAE	-	12	672
TR1068.A12.H8.S2	5/16 SAE	-	12	672
TR1068.A12.H3.S2	1/4 SAE + 5/16 SAE	-	12	672

#### 1-cartridge pack (60 mL)

90 ml hottle

ArtNr.	Adapters included	€	8	-
TR1068.E.01	No adapters	-	15	840
TR1068.E.H4	1/4 SAE	-	15	840
TR1068.E.H8	5/16 SAE	-	15	840
TR1068.E.H3	1/4 SAE + 5/16 SAE	-	15	840

#### 2

ArtNr.	€	8	-			
TR1003.NT.S1	-	24	-			
1-cartridge pack (240 mL)						
1-cartridge pac	k (24	) mL)				
1-cartridge pac ArtNr.	k (24) €	0 mL) V	<b>*</b>			

250 mL bottle with dispenser					
ArtNr.	€	8	•		
TR1003.01.S3	-	-	-		



# Trace Brilliant

Red Leak Detector for Air Conditioning and Refrigeration Systems

- Precisely locates refrigerant gas leaks with recognisable red marks.
- Visible through the ice.
- Does not evaporate and does not develop deposits.
- 1 cartridge (7.5 mL 0.25 fl oz) per 500 mL (16.9 fl oz) of compressor lubricant.
- Compatible with all lubricants and refrigerant gases including CFC, HFC, HCFC, HFO.

#### 12-cartridges pack (7,5 mL each)

ArtNr. Adapters included		€	8	•
TR1133.A12.01.S2	No adapters	-	12	672
TR1133.A12.H4.S2	1/4 SAE	-	12	672
TR1133.A12.H8.S2	5/16 SAE	-	12	672
TR1133.A12.H3.S2	1/4 SAE + 5/16 SAE	-	12	672

#### 1-cartridge pack (60 mL)

• •	· · · · ·			
ArtNr.	Adapters included	€	8	•
TR1133.E.01	No adapters	-	15	840
TR1133.E.H4	1/4 SAE	-	15	840
TR1133.E.H8	5/16 SAE	-	15	840
TR1133.E.H3	1/4 SAE + 5/16 SAE	-	15	840

#### 90 mL bottle

90 mL bottle			250 mL bottle	with c	lispens	ser	
ArtNr.	€	8	•	ArtNr.	€	8	-
TR1133.NT.S1	-	24	-	TR1133.01.S3	-	-	
1-cartridge page	ck (24						
ArtNr.	€	8	•				
TR1133.DQ.01	-	-	-				



# **Best Bubbles Refrigerant Gas Leak Detector**

- Detects micro-leaks on AC/R components and refrigerant lines thanks to its high adhesion power to surfaces.
- Ready and easy to use: leaks result in the formation of large, thick bubbles.
- Operating temperature: -40°C to +80°C (-40°F to +176°F).

Best Bubbles Fluo is ideal in poor visibility situations. Leaks result in the formation of large, thick and fluorescent bubbles, visible when exposed to any UV lamp.

ArtNr.	Description	Quantity	€	8	•
TR1143.K.S1	Best Bubbles	1 L	-	06	570
TR1143.M.01	Best Bubbles	500 mL	-	-	-
TR1161.K.S1	Best Bubbles Fluo	1 L	-	06	570
TR1161.M.01	Best Bubbles Fluo	500 mL	-	-	-



# Best Bubbles Aerosol

- Detects micro-leaks on AC/R components and refrigerant lines thanks to its high adhesion power to surfaces.
- Ready and easy to use: leaks result in the formation of large, thick bubbles.
- Operating temperature: -40°C to +80°C (-40°F to +176°F).

Best Bubbles Fluo Aerosol is ideal in poor visibility situations. Leaks result in the formation of large, thick and fluorescent bubbles, visible when exposed to any UV lamp.

ArtNr.	Description	€	8	-
AB1232.N.01	Best Bubbles	-	12	1344
AB1251.N.01	Best Bubbles Fluo	-	12	1344







1

# Brilliant Remover

Fluorescent UV Dye Remover

- Removes residues of UV dye from surfaces and tools that may have been involved during the leak detection phase.
- Avoids any false leak localisations.
- Does not damage surfaces.

ArtNr.	Description	€	8	
TR1109.01	100 mL Spray Bottle	-	32	2496
TR1108.K.S1	1 L Spray Bottle	-	06	570
TR1004.01	400 mL Aerosol Can	-	12	1344



# Adapters for Vehicle A/C Systems

#### **Plastic Straight Adapters**

ArtNr.	Description	€	8
TB5166.S1	Flex Hose (A)	-	30
RA1064.S1	R134a Adapter 🖲	-	30
RA1068.S1	R1234yf Adapter ©	-	30
RK1422.S1	Pack containing (A) + (B)	-	30
RK1423.S1	Pack containing (A) + (C)	-	30
RK1424.S1	Pack containing $\textcircled{A}$ + $\textcircled{B}$ + $\textcircled{C}$	-	30

# 

#### **Plastic Flexible Adapters**

ArtNr.	Description	€	8
TB5161.01	R134a Adapter 💿	-	20
TB5152.01	R1234yf Adapter 🗈	-	20
RK1441	Pack containing D + E	-	20

#### Plastic Straight Adapters with Metal Valve

ArtNr.	Description	€	¥
TB5162.01	R134a Adapter 🕞	-	20
TB5163.01	R1234yf Adapter ©	-	20
RK1442	Pack containing 🕑 + 🌀	-	20

#### Flexible Adapters with Metal Valve and Quick Coupler

ArtNr.	Description	€	¥
TB5181.01	R134a Adapter 🕀	-	01
TB5108.01	R1234yf Adapter ①	-	01

# Adapters for Air Conditioning and Refrigeration Systems

#### **Plastic Straight Adapters**

ArtNr.	Description	€	8
TB5166.S1	Flex Hose	-	30
RV2024.S1	1/4 SAE Adapter 🛈	-	20
RV2025.S1	5/16 SAE Adapter 🛞	-	20
RK1425.S1	Pack containing 🛛 + 🛈	-	30
RK1426.S1	Pack containing 🛛 + 🕅	-	30
RK1427.S1	Pack containing 🛛 + 🛈 + 🕅	-	30
RV2021.01*	5/16 SAE Aluminium Adapter 🕅	-	20

\*Available while stocks last

#### **Plastic Flexible Adapters**

ArtNr.	Description	€	8
TB5067.R1	1/4 SAE Adapter ©	-	20
TB5068.R1	5/16 SAE Adapter 🕑	-	20
RK1290	Pack containing () + ()	-	20

#### Flexible Adapters with Metal Valve and Fittings

ArtNr.	Description	€	8
TB5022.01	1/4 SAE Adapter @	-	20
TB5023.01	5/16 SAE Adapter ®	-	20
RK1228	Pack containing @ + ®	-	20











# Flexible Bright Torch

FLEXIBLE BRIGHT TORCH is a 5-LED UV dual-head lamp with a flexible probe that allows identifying refrigerant gas leaks even in the most difficult to illuminate spots. Mount the UV head directly on the lamp or via the probe.

#### Technical features:

- Power supply: 3 x 1.5 V "AA" batteries. UV protective googles included.
- LED wavelenght: 385 380 nm. 5 white LED head . Aluminium body. Clamshell.

ArtNr.	€	¥
RK1267	-	05

# Wire Bright Torch

WIRE BRIGHT TORCH is an UV lamp 100W-12V that allows identifying refrigerant gas leaks.

#### Technical features:

- Power supply: 12 V. UV protective googles included. LED wavelenght: 410 405 nm.
- Plastic body. Clamshell.

ArtNr.	€	8
RK1231	-	05

# High Bright Torch

HIGH BRIGHT TORCH is a 1-LED UV - 3W lamp to identify refrigerant gas leaks.

#### Technical features:

- Power supply: 3 x 1.5 V "C" batteries. UV protective googles included.
- LED wavelenght: 410 405 nm. Aluminium body. Clamshell.

ArtNr.	€	P
RK1269	-	05

# Adjustable Focus Bright Torch

ADJUSTABLE FOCUS BRIGHT TORCH is a 1-LED UV - 3W lamp to identify refrigerant gas leaks. Technical features:

- Power supply: 2 x 1.5 V "C" batteries. UV protective googles included.
- LED wavelenght: 410 405 nm. Aluminium body. Case.

ArtNr.	€	8
RK1294	-	01

# Mini Bright Torch

MINI BRIGHT TORCH is a 9-LED UV lamp to identify refrigerant gas leaks. **Technical features:** 

- Power supply: 3 x 1.5 V "AAA" batteries. UV protective googles included.
- LED wavelenght: 410 405 nm. Aluminium body. Clamshell.



# UV Protective Googles

These goggles are glasses that protect the eyes from UV radiation and must be worn when using any UV lamp to identify leaks. Their yellow colour will make the fluorescence of the UV dye even more visible.

#### Technical features:

Complies with EN166:2001 and EN170:2002.

ArtNr.	€	¥
UV1002.01	-	01

# Universal refrigerant leak detection kits

LEAK FINDER are kits for both Automotive and HVAC/R that contain everything you need to detect refrigerant gas leaks using fluorescent UV leak detector dye. The case includes also what's necessary to clean up the traced surface.

# Fast Leak Finder

#### The kit includes:

- 12 x 7.5 mL Brilliant or Green Brilliant.
- Dye detected labels.
- 100 mL spray bottle of Brilliant Remover.
- Low-pressure port adapter for systems with R134a.
- 120 mm 1/4 SAE adapter with safety valve.
- 120 mm 5/16 SAE (R410a) adapter with safety valve.
- 9-LED UV lamp.
- Goggles with 100% UV protection.

ArtNr.	Description	€	8	
RK1241	Brilliant – (yellow)	-	01	-
RK1273	Green Brilliant – (green)	-	01	-



# 🗅 Leak Finder

The kit includes:

- 250 mL bottle with dispenser of Brilliant or Green Brilliant.
- Dye detected labels.
- 100 mL spray bottle of Brilliant Remover.
- Refillable 50 mL cartridge injector.
- Low-pressure port adapter for systems with R134a.
- 120 mm 1/4 SAE adapter with safety valve.
- 120 mm 5/16 SAE (R410a) adapter with safety valve.
- 9-LED UV lamp.
- Goggles with 100% UV protection.

ArtNr.	Description	€	8	
RK1312	Brilliant – (yellow)	-	01	-
RK1307	Green Brilliant – (green)	-	01	-



#### The kit includes:

- 16 x 7.5 mL Brilliant or Green Brilliant.
- Dye detected labels.
- 400 mL aerosol can of Brilliant Remover.
- Low-pressure port adapter for systems with R134a.
- 5-LED UV lamp.
- Goggles with 100% UV protection.

ArtNr.	Description	€	8	
RK1238	Brilliant – (yellow)	-	01	-
RK1298	Green Brilliant – (green)	-	01	-





# **Fast Leak Finder 3**

The kit includes:

- 250 mL bottle with dispenser of Brilliant or Green Brilliant.
- Dye detected labels.
- 100 mL spray bottle of Brilliant Remover.
- Refillable 50 mL cartridge injector.
- Low-pressure port adapter for systems with R134a.
- 120 mm 1/4 SAE adapter with safety valve.
- 120 mm 5/16 SAE (R410a) adapter with safety valve.
- 1-LED UV-3W lamp.
- Goggles with 100% UV protection.

ArtNr.	Description	€	¥	
RK1355	Brilliant – (yellow)	-	01	-
RK1372	Green Brilliant – (green)	-	01	-



#### Refillable.

- 20 and 50 mL cartridge.
- Flexible plastic and metal adapter for 1/4 SAE and 5/16 SAE.
- Flexible plastic and metal adapter for R134a and R1234yf.
- Hose burst pressure: 60 bar (870 psi).
- Plastic case.

ArtNr.	Description	€	8
IN1021.R1	20 mL + Plastic and Metal Adapter 1/4 SAE and 5/16 SAE $\oplus$	-	01
IN1022.R1	50 mL + Plastic and Metal Adapter 1/4 SAE and 5/16 SAE ①	-	01
IN1021.01	20 mL + Plastic and Metal Adapter R134a 2	-	01
IN1022.01	50 mL + Plastic and Metal Adapter R134a 2	-	01
RK1357	50 mL + Plastic and Metal Adapter R1234vf ③	-	01

# Refillable Injector 60 mL

- Refillable.
- 60 mL cartridge.
- Ball valve 1/4 SAE swivel connection.
- 1/4 SAE male rear connection.
- Plastic case.

ArtNr.	€	8
RK1523	-	01

## Refillable Piston Injector

- Refillable.
- 60 mL cartridge.
- 1/4 SAE swivel connection.
- Low-pressure port for systems with R134a.
- Plastic case.

ArtNr.	€	8
RK1155	-	01

## Refillable Injector 7.5 mL

- Refillable.
- 2 Ball valves.
- 1/4 SAE male rear connection.
- 3/8 SAE female front connection.
- Adapter 3/8 SAE male x 1/4 SAE female.

ArtNr.	€	8
RK1106	-	01



# 



# N<sub>2</sub>H<sub>2</sub> Electronic Leak Detector

 $N_2 H_2$  ELECTRONIC LEAK DETECTOR is an electronic device designed to detect a 5% hydrogen (H<sub>2</sub>) + 95% nitrogen (N<sub>2</sub>) gas mixture and the following refrigerant gases: R134a - R410a - R407c - R1234yf - R32 - R404a - R502 - R600 - R290. This leak detector is equipped with a heated sensor and a microprocessor that guarantee an accurate and very precise signal. Thanks to the 3 sensitivity levels and the 7 LED three-colour visual display, this leak detector can guarantee the detection of leaks up to 5ppm (2gr/year).

#### Technical features:

- Semiconductor heated sensor.
- 40 cm stainless flexible probe.
- Operating temperature: from 0°C to 40°C.
- 3 sensitivity levels.
- Leak detection indicator with 7 LED three-colour visual scale.
- Detectable refrigerant gases:
- R134a R1234yf R410a R404a R407c R32 R502 R600 R290. Compliant with SAE J1627 CE.
- Power source: 2 x C size alkaline batteries.
- Power supply: 3,3 V / 0,5 A.
- Plastic case (22,2 x 6,6 x 5,1 cm).
- Weight: 418 gr (battery included).

ArtNr.	€	8	
RK1335	-	01	-
AS1014.01	-	01	-
AS1015.01	-	01	-





11111 0

RK1335

# L N<sub>2</sub>H<sub>2</sub> Pressure Kit HVAC/R

 $N_2H_2$  PRESSURE KIT is a kit to detect leaks in air conditioning and refrigeration systems under pressure with nitrogen/hydrogen gas mixture ( $N_2H_2$ ).

The kit includes:

- Gas pressure regulator (0-60 bar) compliant with EN ISO 2503 186588.
- 2 m charging hose SAE J2196/J2888 with ball valve with 1/4 SAE swivel connection.
- Black 1/4 SAE gauge with 25 cm hose and ball valve with gauge (Class 1.0) in scale sectors refrigerant gases R134a/R1234yf/R32/R410a/R404a/R407c/ R422/R507/R22 and nitrogen/hydrogen mixture (N<sub>p</sub>H<sub>p</sub>).
- Green 5/16 SAE gauge with 25 cm hose and ball valve with gauge (Class 1.0) in scale sectors refrigerant gases R134a/R1234yf/R32/R410a/R404a/R407c/ R422/R507/R22 and nitrogen/hydrogen mixture (N<sub>2</sub>H<sub>2</sub>).
- Disposable N<sub>2</sub>H<sub>2</sub> cylinder 950cc 110 bar.
- Adapter for disposable cylinder (M10x1 W21,80 RHE).
- Storage and transport plastic case (44,7 x 41,2 x 10,7 cm).

Description	€	8	
N <sub>2</sub> H <sub>2</sub> Pressure Kit (IT)	-	01	-
N <sub>2</sub> H <sub>2</sub> Pressure Kit (UK)	-	01	-
N <sub>2</sub> H <sub>2</sub> Pressure Kit (DE)	-	01	-
N <sub>2</sub> H <sub>2</sub> Pressure Kit (FR)	-	01	-
	$N_2H_2$ Pressure Kit (IT) $N_2H_2$ Pressure Kit (UK) $N_2H_2$ Pressure Kit (DE)	N2H2 Pressure Kit (IT)     -       N2H2 Pressure Kit (UK)     -       N2H2 Pressure Kit (DE)     -	$ \begin{array}{c c} N_2H_2 \mbox{ Pressure Kit (IT)} & - & 01 \\ \hline N_2H_2 \mbox{ Pressure Kit (UK)} & - & 01 \\ \hline N_2H_2 \mbox{ Pressure Kit (DE)} & - & 01 \\ \end{array} $



# N<sub>2</sub>H<sub>2</sub> Detection Kit HVAC/R

 $N_2H_2$  DETECTION KIT is a kit to detect leaks up to 5ppm (2gr/year) in air conditioning and refrigeration systems under pressure with nitrogen/hydrogen gas mixture ( $N_2H_2$ ). The electronic leak detector is also able to detect the following refrigerant gases R134a - R410a - R407c - R1234yf - R32 - R404a - R502 - R600 - R290.

#### **Technical features:**

Semiconductor heated sensor. 40 cm stainless flexible probe. Operating temperature: from 0°C to 40°C. 3 sensitivity levels. Leak detection indicator with 7 LED three-colour visual scale. Detectable refrigerant gases: R134a - R1234yf - R410a - R404a - R407c - R32 - R502 - R600 - R290. Compliant with SAE J1627 CE. Power source: 2 x C size alkaline batteries. Power supply: 3,3 V / 0,5 A.

#### The kit includes:

- Gas pressure regulator (0-60 bar) compliant with EN ISO 2503 186588.
- 2 m charging hose SAE J2196/J2888 with ball valve with 1/4 SAE swivel connection.
- Black 1/4 SAE gauge with 25 cm hose and ball valve with gauge (Class 1.0) in scale sectors refrigerant gases R134a/R1234yf/R32/R410a/R404a R407c/R422/R507/R22 and nitrogen/hydrogen mixture (N<sub>p</sub>H<sub>p</sub>).
- Green 5/16 SAE gauge with 25 cm hose and ball valve with gauge (Class 1.0) in scale sectors refrigerant gases R134a/R1234yf/R32/R410a/R404a R407c/R422/R507/ R22 and nitrogen/hydrogen mixture (N<sub>2</sub>H<sub>2</sub>).
- Disposable N<sub>2</sub>H<sub>2</sub> cylinder 950cc 110 bar and adapter (M10x1 W21.80 RH).
- Electronic leak detector.
- Plastic case (44,7 x 41,2 x 10,7 cm).

ArtNr.	Description	€	8
RK1525	W21,7 x 1" 1/4 - UNI 4409 (IT)	-	01
RK1525.UK	G5/8" - BS 341 (UK)	-	01
RK1525.DE	W24,32 x 1" 1/4 - DIN 477 (DE)	-	01
RK1525.FR	Ø21,7 x 1,814 - NFE 29-650/C (FR)	-	01



# R744 (CO<sub>2</sub>) Electronic Leak Detector

R744 ( $CO_2$ ) ELECTRONIC LEAK DETECTOR is an electronic device designed to detect R744 ( $CO_2$ ). The leak detector is equipped with a microprocessor that guarantees an accurate and very precise signal. Thanks to the 3 sensitivity levels and the multi-colour visual display this leak detector can guarantee the detection of leaks up to 5gr/year.

#### Technical features:

- Semiconductor sensor.
- 40 cm stainless flexible probe.
- Operating temperature: from 0°C to 40°C.
- 3 sensitivity levels.
- Leak detection indicator: multi-colour visual display.
- Detectable refrigerant gas: R7444 (CO<sub>2</sub>).
- Power source: 1 rechargeable 3.7 Vdc lithium battery.
- Power supply: 5.0 V / 1.0 A.
- Plastic case (22,4 x 7,1 x 5,4 cm).
- Weight: 416 gr (battery included).
- Auto-off: 10 minutes.





# N<sub>2</sub> Pressure Kit HVAC/R

 $\rm N_2$  PRESSURE KIT is a kit to detect leaks in air conditioning and refrigeration systems under pressure with nitrogen (N\_2).

The kit includes:

- Gas pressure regulator (0-60 bar) compliant with EN ISO 2503 186588.
- 2 m charging hose SAE J2196/J2888 with ball valve with 1/4 SAE swivel connection.
- Black 1/4 SAE gauge with 25 cm hose and ball valve with gauge (Class 1.0) in scale sectors refrigerant gases R134a/R1234yf/R32/R410a/R404a/R407c/ R422/R507/R22 and nitrogen (N<sub>2</sub>).
- Green 5/16 SAE gauge with 25 cm hose and ball valve with gauge (Class 1.0) in scale sectors refrigerant gases R134a/R1234yf/R32/R410a/R404a/R407c/ R422/R507/R22 and nitrogen (N<sub>2</sub>).
- Disposable N<sub>2</sub> cylinder 950cc 110 bar.
- Adapter for disposable cylinder (M10x1 W21,80 RHE).
- Storage and transport plastic case (44,7 x 41,2 x 10,7 cm).

ArtNr.	Description	€	8	-
RK1527	N <sub>2</sub> Pressure Kit (IT)	-	01	-
RK1527.UK	N <sub>2</sub> Pressure Kit (UK)	-	01	-
RK1527.DE	N <sub>2</sub> Pressure Kit (DE)	-	01	-
RK1527.FR	N <sub>2</sub> Pressure Kit (FR)	-	01	-



# AC/R Systems Pressure Regulator & Tester

#### Pressure regulator technical features:

- Inlet pressure: max 200 bar.
- Outlet pressure: max 60 bar.
- 1/4 SAE male fitting.

The kit includes:

- 200 cm hose with 1/4 SAE ball valve.
- Ø 80 mm gauge with defined sectors and 1/4 SAE fitting.
- Adapter: 1/4 SAE male x 5/16 SAE female.

ArtNr.	Description	€	8	
RK1432.IT	W21,7 x 1"1/4 - UNI 4409 (IT)	-	01	-
RK1433.DE	W24,32 x 1"1/4 - DIN477 nr. 10 (DE)	-	01	-
RK1434.UK	G5/8" - BS 341 nr. 3 (UK)	-	01	-
RK1435.FR	Ø 21,7 x 1,814 - NF E 29-650/c (FR)	-	01	-

# Leak Testing Gauges

- Ball valve with 1/4 SAE male fitting.
- Pressure gauge Ø 80 mm, class 1.0 with defined sectors, positioning indicator and adjusting screw.
- Black or green rubber protective shell.

ArtNr.	Description	€	8	
MN1062.01	1/4 SAE fitting	-	01	-
MN1063.01	5/16 SAE (R410a/R32) fitting	-	01	-
				COLUMN THE REAL PROPERTY OF





# Gas Leak Detection in AC/R Systems

Connection

Joint W21,7 x 1"1/4 - UNI 4409 (IT)

€

8

01

R744 (CO<sub>2</sub>) Pressure Regulator

# Nitrogen Pressure Regulator

#### **Technical features:**

Technical features:

1/4 SAE male fitting.
 Art.-Nr.

MN1125.01

Inlet pressure: max 300 bar.Outlet pressure: max 200 bar.

- Inlet pressure: max 200 bar.
- Outlet pressure: max 60 bar.
- 1/4 SAE male fitting.

ArtNr.	Description	€	8	•
RK1325.IT	Connection W21,7 x 1"1/4 - UNI 4409 (IT)	-	01	-
RK1280.DE	Connection W24,32 x 1"1/4 - DIN477 nr. 10 (DE)	-	01	-
RK1281.UK	Connection G5/8" - BS 341 nr. 3 (UK)	-	01	-
RK1282.FR	Connection Ø 21,7 x 1,814 - NF E 29-650/c (FR)	-	01	-



# Nitrogen Pressure Regulator for Mini Cylinders

It is a pressure regulator for mini cylinders that contain nitrogen or nitrogen/hydrogen.

#### Technical features:

Inlet pressure: max 110 bar. Outlet pressure: max 10 bar. Hose length: 200 cm. Fitting: 1/4 SAE swivel ball valve.

ArtNr.	€	8	-
MN1020.01	-	01	-



# $\square$ N<sub>2</sub> (Nitrogen) and N<sub>2</sub>H<sub>2</sub> (Nitrogen-Hydrogen) Cylinder

Disposable cylinders filled to a pressure of 110 bar.

ArtNr.	Description	€	8	<b>*</b>
BG1005.01	N <sub>2</sub> (Nitrogen) cylinder 950cc	-	12	-
BG1062.01	N <sub>2</sub> H <sub>2</sub> (Nitrogen-Hydrogen) cylinder 950cc	-	12	-
BG1069.01	N <sub>2</sub> H <sub>2</sub> (Nitrogen-Hydrogen) cylinder 2,2 L	-	12	-

ArtNr.	Description	€	8	
RP1029.01	W21,7 x 1"1/4 - UNI 4409 (IT)	-	01	-
RP1061.01	W24,32 x 1"1/4 - DIN477 nr. 10 (DE)	-	01	-
RP1062.01	G5/8" - BS 341 nr. 3 (UK)	-	01	-
RP1059.01	Ø 21,7 x 1,814 - NF E 29-650/c (FR)	-	01	-







# POE Lubricants

Errecom's POE lubricants, in all their viscosity levels, are composed of a mixture of polyol esters and additives that aims to achieve: excellent lubricity;

- better hydrolytic, chemical, and thermal stability;
- excellent anti-wear protection of the AC/R system components.

Besides, the identification and complete elimination of reaction catalysts make Errecom's POE one of the most stable and least reactive to ester hydrolysis refrigeration lubricants on the market.

The high viscosity index of polyol esters guarantees excellent fluidity (in terms of flow capabilities) at low temperatures and a stable film at high temperatures, thus confirming the maximum efficiency of the lubricant in all operating conditions. Formulated to be highly compatible with AC/R materials components of all types and generations, Errecom POEs are characterised by low toxicity and high biodegradability.

Their reduced hygroscopicity originates from anti-moisture additives, specially designed by Errecom chemists to preserve the characteristics of the lubricant over time as much as possible. In addition, they present electrical insulation and excellent solubility and miscibility with the following group of refrigerant gases: HCFC - HFC - HFO.

Physical Quantity Measured (Unit of Measurement)	Analytical Reference Method	<b>POE 22</b>	POE 32	<b>POE</b> 46	POE 55	POE 68	POE 100	POE 170	POE 220
ISO VG	-	22	32	46	55	68	100	170	220
Kinematic Viscosity @ 40°C (cSt)	ASTM-D445	19,37	30,5	46,3	53,9	68,6	102,28	162,2	226,2
Kinematic Viscosity @ 100°C (cSt)	ASTM-D445	4,23	5,5	7,3	8,2	9,5	11,51	16,66	19,34
Viscosity Index	ASTM-D2270	125	120	121	123	118	99	109	97
Freezing Point (°C)	ASTM-D97	-54	-53	-47	-42	-45	-39	-34	-30
Flash Point (°C)	ASTM-D92	288	260	248	240	284	308	328	318
Density @ 15°C (g/cm³)	ASTM-D4052	0,9927	0,978	0,978	0,965	0,978	0,968	0,968	0,975
Moisture Level (ppm)	ASTM-E1064	50	50	50	50	50	75	75	75
Total Acid (mg KOH/g)	ASTM-D974	<0,03	<0,03	<0,03	<0,03	<0,03	<0,04	<0,04	<0,04
Colour (APHA)	ASTM-D1209	32	20	20	30	30	99	99	100
Reaction Catalyst Residue (ppm)	IM	<0,02	<0,02	<0,02	<0,02	<0,02	<0,02	<0,02	<0,02

# POE 22

ArtNr.	Qty.	€	8	*	Packaging
OL6011.Q.P2	250 mL	-	24	2880	
OL6011.M.P2	500 mL	-	12	1080	
OL6011.K.P2	1 L	-	12	756	Plastic Tank
OL6011.UP.P2	1 Gal	-	02	196	FIASLIC TATIK
OL6011.I.P2	4 L	-	02	196	
OL6011.P.P2	5 L	-	02	140	
OL6011.K.01	1 L	-	12	768	
OL6011.P.01	5 L	-	02	190	
OL6011.V	20 L	-	01	22	Metal Tank
OL6011.T	25 L	-	01	22	
OL6011.B	200 L	-	01	02	
OL6011.IBC	1000 L	-	01	01	IBC Cube

# **POE** 46

ArtNr.	Qty.	€	8	<b>\$</b>	Packaging
OL6015.Q.P2	250 mL	-	24	2880	
OL6015.M.P2	500 mL	-	12	1080	
OL6015.K.P2	1 L	-	12	756	Plastic Tank
OL6015.UP.P2	1 Gal	-	02	196	FIASUC TATIK
OL6015.I.P2	4 L	-	02	196	
OL6015.P.P2	5 L	-	02	140	
OL6015.K.01	1 L	-	12	768	
OL6015.P.01	5 L	-	02	190	
OL6015.V	20 L	-	01	22	Metal Tank
OL6015.T	25 L	-	01	22	
OL6015.B	200 L	-	01	02	
OL6015.IBC	1000 L	-	01	01	IBC Cube

## **DOE 68**

ArtNr.	Qty.	€	8	\$	Packaging
OL6016.Q.P2	250 mL	-	24	2880	
OL6016.M.P2	500 mL	-	12	1080	
OL6016.K.P2	1 L	-	12	756	Plastic Tank
OL6016.UP.P2	1 Gal	-	02	196	FIASLIC TATIK
OL6016.I.P2	4 L	-	02	196	
OL6016.P.P2	5 L	-	02	140	
OL6016.K.01	1 L	-	12	768	
OL6016.P.01	5 L	-	02	190	
OL6016.V	20 L	-	01	22	Metal Tank
OL6016.T	25 L	-	01	22	
OL6016.B	200 L	-	01	02	
OL6016.IBC	1000 L	-	01	01	IBC Cube

# **POE** 170

ArtNr.	Qty.	€	8	¢"	Packaging
OL6020.Q.P2	250 mL	-	24	2880	
OL6020.M.P2	500 mL	-	12	1080	
OL6020.K.P2	1 L	-	12	756	Plastic Tank
OL6020.UP.P2	1 Gal	-	02	196	FIASLIC TATIK
OL6020.I.P2	4 L	-	02	196	
OL6020.P.P2	5 L	-	02	140	
OL6020.K.01	1 L	-	12	768	
OL6020.P.01	5 L	-	02	190	
OL6020.V	20 L	-	01	22	Metal Tank
OL6020.T	25 L	-	01	22	
OL6020.B	200 L	-	01	02	
OL6020.IBC	1000 L	-	01	01	IBC Cube

# **POE 32**

ArtNr.	Qty.	€	8	،	Packaging
OL6012.Q.P2	250 mL	-	24	2880	
OL6012.M.P2	500 mL	-	12	1080	
OL6012.K.P2	1 L	-	12	756	Plastic Tank
OL6012.UP.P2	1 Gal	-	02	196	I lastic Talik
OL6012.I.P2	4 L	-	02	196	
OL6012.P.P2	5 L	-	02	140	
OL6012.K.01	1 L	-	12	768	
OL6012.P.01	5 L	-	02	190	
OL6012.V	20 L	-	01	22	Metal Tank
OL6012.T	25 L	-	01	22	
OL6012.B	200 L	-	01	02	
OL6012.IBC	1000 L	-	01	01	IBC Cube

# **POE 55**

ArtNr.	Qty.	€	8	۴	Packaging
OL6055.Q.P2	250 mL	-	24	2880	
OL6055.M.P2	500 mL	-	12	1080	
OL6055.K.P2	1 L	-	12	756	Plastic Tank
OL6055.UP.P2	1 Gal	-	02	196	FIASLIC TALIK
OL6055.I.P2	4 L	-	02	196	
OL6055.P.P2	5 L	-	02	140	
OL6055.K.01	1 L	-	12	768	
OL6055.P.01	5 L	-	02	190	
OL6055.V	20 L	-	01	22	Metal Tank
OL6055.T	25 L	-	01	22	
OL6055.B	200 L	-	01	02	
OL6055.IBC	1000 L	-	01	01	IBC Cube

## **POE 100**

ArtNr.	Qty.	€	8	*	Packaging
OL6017.Q.P2	250 mL	-	24	2880	
OL6017.M.P2	500 mL	-	12	1080	
OL6017.K.P2	1 L	-	12	756	Plastic Tank
OL6017.UP.P2	1 Gal	-	02	196	FIASLIC TATIK
OL6017.I.P2	4 L	-	02	196	
OL6017.P.P2	5 L	-	02	140	
OL6017.K.01	1 L	-	12	768	
OL6017.P.01	5 L	-	02	190	
OL6017.V	20 L	-	01	22	Metal Tank
OL6017.T	25 L	-	01	22	
OL6017.B	200 L	-	01	02	
OL6017.IBC	1000 L	-	01	01	IBC Cube

# **POE 220**

ArtNr.	Qty.	€	8	۴	Packaging
OL6021.Q.P2	250 mL	-	24	2880	
OL6021.M.P2	500 mL	-	12	1080	
OL6021.K.P2	1 L	-	12	756	Plastic Tank
OL6021.UP.P2	1 Gal	-	02	196	FIASLIC TATIK
OL6021.I.P2	4 L	-	02	196	
OL6021.P.P2	5 L	-	02	140	
OL6021.K.01	1 L	-	12	768	
OL6021.P.01	5 L	-	02	190	
OL6021.V	20 L	-	01	22	Metal Tank
OL6021.T	25 L	-	01	22	
OL6021.B	200 L	-	01	02	
OL6021.IBC	1000 L	-	01	01	IBC Cube

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Physical Quantity Measured (Unit of Measurement)	Analytical Reference Method	CO <sub>2</sub> -POE 32	CO <sub>2</sub> - POE 55	CO <sub>2</sub> -POE 68	CO <sub>2</sub> - POE 85	CO <sub>2</sub> - POE 100
ISO VG	-	32	55	68	85	100
Kinematic Viscosity @ 40°C (cSt)	ASTM-D445	32	55	68,3	84	100
Kinematic Viscosity @ 100°C (cSt)	ASTM-D445	7	8,8	9,5	11,5	16
Viscosity Index	ASTM-D2270	150	142	122	119	112
Freezing Point (°C)	ASTM-D97	-51	-49	-42	-39	-39
Flash Point (°C)	ASTM-D92	270	280	270	272	272
Density @ 15°C (g/cm <sup>3</sup> )	ASTM-D4052	0,983	0,982	0,987	0,991	0,986
Moisture Level (ppm)	ASTM-E1064	50	40	50	40	40
Total Acid (mg KOH/g)	ASTM-D974	<0,04	<0,03	<0,02	<0,03	<0,03
Colour (APHA)	ASTM-D1209	60	50	50	50	50
Reaction Catalyst Residue (ppm)	IM	<0,02	<0,02	<0,02	<0,02	<0,02

POE lubricants tend to allow a high degree of solubility with CO<sub>2</sub> and contribute to a considerable reduction in viscosity. The higher the pressure, the more significant the amount of refrigerant gas in the lubricant. This pattern is general for all lubricants miscible with refrigerant gas, but the amount depends on the type of refrigerant and lubricant. In the case of POEs, the reduction in viscosity with CO<sub>2</sub> at typical working pressures in refrigeration systems can lead to a lack of lubrication in some compressor components, especially at the start-up or at high load conditions. Errecom's POE lubricants for CO<sub>2</sub> are formulated with superior antioxidants, anticorrosive and anti-foaming additives that have been carefully selected to:

- optimise the miscibility with CO<sub>2</sub>, thus obtaining an increase in heat exchange even at low temperatures;
- reduce the foam growth, that usually occurs at the start-up of the compressor;
- increase its lubricating power;
- lend a strong protective action to the lubricant towards the materials, even in case of extreme working conditions.

In addition, Errecom's CO<sub>2</sub> - POEs are characterised by low toxicity and high biodegradability.

# CO<sub>2</sub> - PAG

Physical Quantity Measured (Unit of Measurement)	Analytical Reference Method	CO <sub>2</sub> - PAG 46	CO <sub>2</sub> - PAG 68	CO <sub>2</sub> - PAG 100
ISO VG	-	46	68	100
Kinematic Viscosity @ 40°C (cSt)	ASTM-D445	49,7	70	107,3
Kinematic Viscosity @ 100°C (cSt)	ASTM-D445	10,7	14	20
Viscosity Index	ASTM-D2270	213	210	216
Freezing Point (°C)	ASTM-D97	-49	-46	-43
Flash Point (°C)	ASTM-D92	> 200	> 200	> 200
Density @ 15°C (g/cm <sup>3</sup> )	ASTM-D4052	0,998	0,998	0,999
Moisture Level (ppm)	ASTM-E1064	300	300	500
Total Acid (mg KOH/g)	ASTM-D974	0,02	0,02	0,1
Colour (APHA)	ASTM-D1209	20	20	20
Capping Efficiency (%)	IM	95	95	95

In the case of PAG lubricants (polyalkylene glycols), the reduction in viscosity with CO<sub>2</sub> is not as marked as for POEs: in fact, the CO<sub>2</sub> miscibility level with PAGs is lower if compared to the one with POEs. Errecom's PAG lubricants for CO<sub>2</sub> are high-performance polyalkylene glycol blends, developed specifically for transcritical CO<sub>2</sub> systems that require lubricants capable of withstanding the high operating pressures of CO<sub>2</sub> systems and adequately lubricating every component of the compressor and system. They are also characterised by excellent thermal stability and can work in the high discharge conditions encountered in transcritical heat pumps. Compared to common PAGs, Errecom's CO<sub>2</sub> - PAGs have:

reduced hygroscopicity;

- excellent lubricity;
- extraordinary resistance to thermal degradation;
- high chemical, thermal and hydrolytic stability;
- excellent miscibility with CO<sub>2</sub> (in a wide range of lubricant concentrations and temperatures).

# CO<sub>2</sub> and Lubricants

The Montreal Protocol bans CFCs and HCFCs aiming to protect the ozone layer while the Kyoto Protocol aims to reduce greenhouse gases and, thus, global warming. F-Gas II, on the other hand, aims to progressively reduce the use of HFCs and high GWP (global warming potential) refrigerants.

These laws encourage the use of R744 ( $CO_2$ ). Hence the ever-increasing need for lubricants that can work at pressure and service temperatures of  $CO_2$ , which are much higher than those of halogen refrigerants at medium pressure. This leads to extreme mechanical constraints on moving components and bearings.

 $CO_2$  is also extremely soluble in oil, which causes significant drops in viscosity and can lead to oil film breakdown. Consequently, if an unsuitable oil is used, premature wear of the system may occur because of insufficient lubrication and sealing failure with loss of compression.

When the system is expected to operate with miscible lubricants, in the case of  $CO_2$ , mineral or synthetic lubricants such as PAO and ABZ will not be suitable, while POE or PAG are suitable in both subcritical and transcritical applications.

# **CO**<sub>2</sub> - POE 32

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ArtNr.	Qty.	€	8	*	Packaging
OL6079.Q.P2	250 mL	-	24	2880	
OL6079.M.P2	500 mL	-	12	1080	
OL6079.K.P2	1 L	-	12	756	Plastic Tank
OL6079.UP.P2	1 Gal	-	02	196	Plastic Tarik
OL6079.I.P2	4 L	-	02	196	
OL6079.P.P2	5 L	-	02	140	
OL6079.K.01	1 L	-	12	768	
OL6079.P.01	5 L	-	02	190	
OL6079.V	20 L	-	01	22	Metal Tank
OL6079.T	25 L	-	01	22	
OL6079.B	200 L	-	01	02	
OL6079.IBC	1000 L	-	01	01	IBC Cube

# CO2 - POE 68

ArtNr.	Qty.	€	8	*	Packaging
OL6083.Q.P2	250 mL	-	24	2880	
OL6083.M.P2	500 mL	-	12	1080	
OL6083.K.P2	1 L	-	12	756	Plastic Tank
OL6083.UP.P2	1 Gal	-	02	196	FIASLIC TALIK
OL6083.I.P2	4 L	-	02	196	
OL6083.P.P2	5 L	-	02	140	
OL6083.K.01	1 L	-	12	768	
OL6083.P.01	5 L	-	02	190	
OL6083.V	20 L	-	01	22	Metal Tank
OL6083.T	25 L	-	01	22	
OL6083.B	200 L	-	01	02	
OL6083.IBC	1000 L	-	01	01	IBC Cube

# CO<sub>2</sub> - PAG 46

ArtNr.	Qty.	€	8	*	Packaging
OL6036.Q.P2	250 mL	-	24	2880	
OL6036.M.P2	500 mL	-	12	1080	
OL6036.K.P2	1 L	-	12	756	Plastic Tank
OL6036.UP.P2	1 Gal	-	02	196	FIASLIC TALIK
OL6036.I.P2	4 L	-	02	196	
OL6036.P.P2	5 L	-	02	140	
OL6036.K.01	1 L	-	12	768	
OL6036.P.01	5 L	-	02	190	
OL6036.V	20 L	-	01	22	Metal Tank
OL6036.T	25 L	-	01	22	
OL6036.B	200 L	-	01	02	
OL6036.IBC	1000 L	-	01	01	IBC Cube

# **CO**<sub>2</sub> - PAG 68

ArtNr.	Qty.	€	8	¢	Packaging
OL6037.Q.P2	250 mL	-	24	2880	
OL6037.M.P2	500 mL	-	12	1080	
OL6037.K.P2	1 L	-	12	756	Plastic Tank
OL6037.UP.P2	1 Gal	-	02	196	FIASLIC TAILS
OL6037.I.P2	4 L	-	02	196	
OL6037.P.P2	5 L	-	02	140	
OL6037.K.01	1 L	-	12	768	
OL6037.P.01	5 L	-	02	190	
OL6037.V	20 L	-	01	22	Metal Tank
OL6037.T	25 L	-	01	22	
OL6037.B	200 L	-	01	02	
OL6037.IBC	1000 L	-	01	01	IBC Cube

# CO2 - POE 55

ArtNr.	Qty.	€	8	۴	Packaging
OL6062.Q.P2	250 mL	-	24	2880	
OL6062.M.P2	500 mL	-	12	1080	
OL6062.K.P2	1 L	-	12	756	Plastic Tank
OL6062.UP.P2	1 Gal	-	02	196	Flaslic Tarik
OL6062.I.P2	4 L	-	02	196	
OL6062.P.P2	5 L	-	02	140	
OL6062.K.01	1 L	-	12	768	
OL6062.P.01	5 L	-	02	190	
OL6062.V	20 L	-	01	22	Metal Tank
OL6062.T	25 L	-	01	22	
OL6062.B	200 L	-	01	02	
OL6062.IBC	1000 L	-	01	01	IBC Cube

# CO<sub>2</sub> - POE 85

ArtNr.	Qty.	€	8	،	Packaging
OL6063.Q.P2	250 mL	-	24	2880	
OL6063.M.P2	500 mL	-	12	1080	
OL6063.K.P2	1 L	-	12	756	Plastic Tank
OL6063.UP.P2	1 Gal	-	02	196	FIASUL TAIL
OL6063.I.P2	4 L	-	02	196	
OL6063.P.P2	5 L	-	02	140	
OL6063.K.01	1 L	-	12	768	
OL6063.P.01	5 L	-	02	190	
OL6063.V	20 L	-	01	22	Metal Tank
OL6063.T	25 L	-	01	22	
OL6063.B	200 L	-	01	02	
OL6063.IBC	1000 L	-	01	01	IBC Cube

# CO2 - POE 100

ArtNr.	Qty.	€	8	۴	Packaging	
OL6084.Q.P2	250 mL	-	24	2880		
OL6084.M.P2	500 mL	-	12	1080		
OL6084.K.P2	1 L	-	12	756	Diantia Tank	
OL6084.UP.P2	1 Gal	-	02	196	Plastic Tank	
OL6084.I.P2	4 L	-	02	196		
OL6084.P.P2	5 L	-	02	140		
OL6084.K.01	1 L	-	12	768		
OL6084.P.01	5 L	-	02	190		
OL6084.V	20 L	-	01	22	Metal Tank	
OL6084.T	25 L	-	01	22		
OL6084.B	200 L	-	01	02		
OL6084.IBC	1000 L	-	01	01	IBC Cube	

# CO2 - PAG 100

ArtNr.	Qty.	€	8	۴	Packaging	
OL6078.Q.P2	250 mL	-	24	2880		
OL6078.M.P2	500 mL	-	12	1080		
OL6078.K.P2	1 L	-	12	756	Plastic Tank	
OL6078.UP.P2	1 Gal	-	02	196	FIASLIC TALIK	
OL6078.I.P2	4 L	-	02	196		
OL6078.P.P2	5 L	-	02	140		
OL6078.K.01	1 L	-	12	768		
OL6078.P.01	5 L	-	02	190		
OL6078.V	20 L	-	01	22	Metal Tank	
OL6078.T	25 L	-	01	22		
OL6078.B	200 L	-	01	02		
OL6078.IBC	1000 L	-	01	01	IBC Cube	

# 🖪 HC - PAG

Errecom's PAG lubricants consist of a mixture of polyalkylene glycols (chosen by identifying the most performing and innovative molecules on the market with which to realize capped terminals) and additives. The additivation of Errecom's PAGs, regardless of their viscosity, makes it possible to:

- increase their lubricating capacity;
- improve their hydrolytic stability;
- reduce their hygroscopicity;
- give them effective anti-wear and anti-corrosion performance;
- guarantee high solubility and miscibility.

PAG lubricants, initially developed for application in the automotive sector, have proven over time to be excellent for use with natural refrigerants of various kinds, such as anhydrous ammonia, propane, and butane.

HC	-	PA	G	68

Qty.	€	8	۴	Packaging
250 mL	-	24	2880	
500 mL	-	12	1080	
1 L	-	12	756	Plastic Tank
1 Gal	-	02	196	Plastic Tarik
4 L	-	02	196	
5 L	-	02	140	
1 L	-	12	768	
5 L	-	02	190	
20 L	-	01	22	Metal Tank
25 L	-	01	22	
200 L	-	01	02	
1000 L	-	01	01	IBC Cube
	250 mL 500 mL 1 L 1 Gal 4 L 5 L 5 L 20 L 25 L 20 L	250 mL - 500 mL - 1 L - 1 Gal - 4 L - 5 L - 1 L - 5 L - 20 L - 25 L - 25 L - 20 L -	250 mL     -     24       500 mL     -     12       1 L     -     12       1 Gal     -     02       4 L     -     02       5 L     -     02       1 L     -     12       20 L     -     01       25 L     -     01       20 L     -     01       200 L     -     01	250 mL     -     24     2880       500 mL     -     12     1080       1 L     -     12     756       1 Gal     -     02     196       4 L     -     02     140       5 L     -     02     140       1 L     -     12     768       5 L     -     02     190       20 L     -     01     22       25 L     -     01     22       20 L     -     01     02

Physical Quantity Measured (Unit of Measurement)	Analytical Reference Method	HC - PAG 68	HC - PAG 150
ISO VG	-	68	150
Kinematic Viscosity @ 40°C (cSt)	ASTM-D445	68	150
Kinematic Viscosity @ 100°C (cSt)	ASTM-D445	12,4	25
Viscosity Index	ASTM-D2270	181	200
Freezing Point (°C)	ASTM-D97	-40	-40
Flash Point (°C)	ASTM-D92	215	230
Density @ 15°C (g/cm³)	ASTM-D4052	0,999	1,005
Moisture Level (ppm)	ASTM-E1064	300	300
Total Acid (mg KOH/g)	ASTM-D974	0,05	0,05
Colour (APHA)	ASTM-D1209	16	21
Capping Efficiency (%)	IM	95	95

# **HC - PAG 150**

Qty.	€	8	÷	Packaging	
250 mL	-	24	2880		
500 mL	-	12	1080		
1 L	-	12	756	Plastic Tank	
1 Gal	-	02	196	FIASUC TATIK	
4 L	-	02	196		
5 L	-	02	140		
1 L	-	12	768		
5 L	-	02	190		
20 L	-	01	22	Metal Tank	
25 L	-	01	22		
200 L	-	01	02		
1000 L	-	01	01	IBC Cube	
	250 mL 500 mL 1 L 1 Gal 4 L 5 L 1 L 5 L 20 L 25 L 200 L	250 mL - 500 mL - 1 L - 1 Gal - 4 L - 5 L - 5 L - 20 L - 25 L - 25 L - 25 L - 20 L -	250 mL     -     24       500 mL     -     12       1 L     -     12       1 Gal     -     02       4 L     -     02       5 L     -     02       1 L     -     12       20 L     -     01       25 L     -     01       20 L     -     01       200 L     -     01	250 mL     -     24     2880       500 mL     -     12     1080       1 L     -     12     756       1 Gal     -     02     196       4 L     -     02     140       5 L     -     02     190       5 L     -     02     190       20 L     -     01     22       25 L     -     01     22       20 L     -     01     02	

# 240 mL Lubricant Cartridges

# Easy Gun

EasyGun is Errecom's tool for inserting 240 mL cartridges of additives, UV leak detector dyes, and lubricants in AC/R systems.

ArtNr.	Description	€	¥
IN1032.01	EasyGun	-	01
TB5203.01	1/4 SAE Adapter	-	01
TB5204.01	5/16 SAE Adapter	-	01

# **PAG**

ArtNr.	Description	€	8	•
OL6069.DQ.01	HC - PAG 68	-	06	-
OL6077.DQ.01	HC - PAG 150	-	06	-
OL6036.DQ.01	CO <sub>2</sub> - PAG 46	-	06	-
OL6037.DQ.01	CO <sub>2</sub> - PAG 68	-	06	-
OL6078.DQ.01	CO <sub>2</sub> - PAG 100	-	06	-

# MINERAL OIL

ArtNr.	Description	€	8	*
OL6064.DQ.01	MINERAL 32/3	-	06	-
OL6065.DQ.01	MINERAL 46	-	06	-
OL6066.DQ.01	MINERAL 55/4	-	06	-
OL6067.DQ.01	MINERAL 68	-	06	-
OL6068.DQ.01	MINERAL 100/5	-	06	-



# **POE**

ArtNr.	Description	€	8	÷
OL6011.DQ.01	POE 22	-	06	-
OL6012.DQ.01	POE 32	-	06	-
OL6015.DQ.01	POE 46	-	06	-
OL6055.DQ.01	POE 55	-	06	-
OL6016.DQ.01	POE 68	-	06	-
OL6017.DQ.01	POE 100	-	06	-
OL6020.DQ.01	POE 170	-	06	-
OL6021.DQ.01	POE 220	-	06	-
OL6062.DQ.01	CO <sub>2</sub> - POE 55	-	06	-
OL6063.DQ.01	CO <sub>2</sub> - POE 85	-	06	-

# Mineral Oil

Physical Quantity Measured (Unit of Measurement)	Analytical Reference Method	MINERAL 32/3	MINERAL 46	MINERAL 55/4	MINERAL 68	MINERAL 100/5
ISO VG	-	32	46	55	68	100
Kinematic Viscosity @ 40°C (cSt)	ASTM-D445	32	46	55	68	99
Kinematic Viscosity @ 100°C (cSt)	ASTM-D445	4,6	5,4	6,2	6,6	8,8
Viscosity Index	ASTM-D2270	95	94	96	95	94
Freezing Point (°C)	ASTM-D97	-45	-36	-32	-30	-30
Flash Point (°C)	ASTM-D92	190	194	198	200	220
Density @ 15°C (g/cm³)	ASTM-D4052	0,904	0,91	0,91	0,915	0,905
Moisture Level (ppm)	ASTM-E1064	16	16	18	17	10
Total Acid (mg KOH/g)	ASTM-D974	0,02	0,02	0,02	0,02	0,02
Colour (APHA)	ASTM-D1209	10	15	15	18	10
Sulphur	IM	0,06	0,06	0,06	0,06	0,03

Errecom's mineral oils are formulated with the finest naphthenic bases and new-generation additives.

Although mineral refrigeration oils tend to have a greater environmental impact than synthetic ones, as well as a much lower percentage of humidity and much higher acid, Errecom has developed its mineral oils thanks to its consolidated chemical know-how, selecting additives designed to formulate a lubricant with the following features:

- low toxicity;
- high compatibility with the materials of sytems of all types (paying constant attention to developments);
- high solubility and miscibility with refrigerants.

Ideal to be used in systems working with CFCs and natural gases such as ammonia.

#### MINERAL 55/4

ArtNr.	Qty.	€	8	۴	Packaging
OL6066.Q.P2	250 mL	-	24	2880	
OL6066.M.P2	500 mL	-	12	1080	
OL6066.K.P2	1 L	-	12	756	Plastic Tank
OL6066.UP.P2	1 Gal	-	02	196	FIASLIC TALIK
OL6066.I.P2	4 L	-	02	196	
OL6066.P.P2	5 L	-	02	140	
OL6066.K.01	1 L	-	12	768	
OL6066.P.01	5 L	-	02	190	
OL6066.V	20 L	-	01	22	Metal Tank
OL6066.T	25 L	-	01	22	
OL6066.B	200 L	-	01	02	
OL6066.IBC	1000 L	-	01	01	IBC Cube

# MINERAL 68

ArtNr.	Qty.	€	8	۴	Packaging	
OL6067.Q.P2	250 mL	-	24	2880		
OL6067.M.P2	500 mL	-	12	1080		
OL6067.K.P2	1 L	-	12	756	Plastic Tank	
OL6067.UP.P2	1 Gal	-	02	196	FIASUC TANK	
OL6067.I.P2	4 L	-	02	196		
OL6067.P.P2	5 L	-	02	140		
OL6067.K.01	1 L	-	12	768		
OL6067.P.01	5 L	-	02	190		
OL6067.V	20 L	-	01	22	Metal Tank	
OL6067.T	25 L	-	01	22		
OL6067.B	200 L	-	01	02		
OL6067.IBC	1000 L	-	01	01	IBC Cube	

# MINERAL 32/3

ArtNr.	Qty.	€	8	۴	Packaging	
OL6064.Q.P2	250 mL	-	24	2880		
OL6064.M.P2	500 mL	-	12	1080		
OL6064.K.P2	1 L	-	12	756	Plastic Tank	
OL6064.UP.P2	1 Gal	-	02	196	FIASUC TALIK	
OL6064.I.P2	4 L	-	02	196		
OL6064.P.P2	5 L	-	02	140		
OL6064.K.01	1 L	-	12	768		
OL6064.P.01	5 L	-	02	190		
OL6064.V	20 L	-	01	22	Metal Tank	
OL6064.T	25 L	-	01	22		
OL6064.B	200 L	-	01	02		
OL6064.IBC	1000 L	-	01	01	IBC Cube	

## MINERAL 46

ArtNr.	Qty.	€	8	*	Packaging
OL6065.Q.P2	250 mL	-	24	2880	
OL6065.M.P2	500 mL	-	12	1080	
OL6065.K.P2	1 L	-	12	756	Plastic Tank
OL6065.UP.P2	1 Gal	-	02	196	FIASLIC TALIK
OL6065.I.P2	4 L	-	02	196	
OL6065.P.P2	5 L	-	02	140	
OL6065.K.01	1 L	-	12	768	
OL6065.P.01	5 L	-	02	190	
OL6065.V	20 L	-	01	22	Metal Tank
OL6065.T	25 L	-	01	22	
OL6065.B	200 L	-	01	02	
OL6065.IBC	1000 L	-	01	01	IBC Cube

# MINERAL 100/5

ArtNr.	Qty.	€	8	،	Packaging
OL6068.Q.P2	250 mL	-	24	2880	
OL6068.M.P2	500 mL	-	12	1080	
OL6068.K.P2	1 L	-	12	756	Diantia Tank
OL6068.UP.P2	1 Gal		02	196	Plastic Tank
OL6068.I.P2	4 L	-	02	196	
OL6068.P.P2	5 L	-	02	140	
OL6068.K.01	1 L	-	12	768	
OL6068.P.01	5 L	-	02	190	
OL6068.V	20 L	-	01	22	Metal Tank
OL6068.T	25 L	-	01	22	
OL6068.B	200 L	-	01	02	
OL6068.IBC	1000 L	-	01	01	IBC Cube

# Vacuum Pump Oil

Errecom's mineral oils for vacuum pumps have been developed using a lubricant with a high viscosity index, formulated with carefully selected paraffinic oils. Due to their chemical-physical characteristics, they can be defined as state-of-the-art lubricants: in fact, they have been developed for modern hydraulic systems operating under severe operating conditions. For example, the anti-wear additives, included in each formulation of mineral oil for vacuum pumps, is specially designed to increase the efficiency and life of pumps and all moving components of the system. Like mineral oils, also mineral oils for vacuum pumps, regardless of their viscosity, shows excellent lubricating capacity; the low pour point, then, allows to extend the temperature range of use and ensures easy cold starts of hydraulic systems.

#### The main features of Errecom's mineral oils are:

- high thermal stability: it can be uses in closed systems operating even at high temperatures and high pressures avoiding the growth of deposits and sludge;
- high oxidation stability: it extends the charge in operation, thus preventing the viscosity of the product from increasing too early;
- high hydrolytic stability: it protects the oil from decomposition, even in the presence of small percentages of water;
- good demulsibility: it quickly separates oil from the water that may have entered the system, further inhibiting the oxidation process;
- higher filterability even in the presence of water (compared to previous lubricants): it avoids clogging of the filters and extends filter replacement intervals;
- anti-corrosion and anti-rust power: it protects all metal components of the system;
- anti-foam properties: avoids the formation/presence of foam and therefore of air that would reduce the system's efficiency due to the compressibility different from that of oil.

Physical Quantity Measured (Unit of Measurement)	Analytical Reference Method	ISO 32	ISO 46	ISO 68	HIGH VISCOSITY ISO 46 HD
ISO VG	-	32	46	68	46
Kinematic Viscosity @ 20°C (cSt)	ASTM-D445	-	-	-	143,9
Kinematic Viscosity @ 40°C (cSt)	ASTM-D445	32,2	46,4	67,9	46,8
Kinematic Viscosity @ 100°C (cSt)	ASTM-D445	5,5	7,2	8,8	7,6
Viscosity Index	ASTM-D2270	105	103	102	133
Freezing Point (°C)	ASTM-D97	-31	-26	-25	-16
Flash Point (°C)	ASTM-D92	210	215	220	225
Density @ 15°C (g/cm³)	ASTM-D4052	0,87	0,872	0,877	0,845
Autoignition Temperature (°C)	-	-	-	-	360
Vapour Pressure at 20 °C (mbar)	-	-	-	-	10X10-8
Vapour Pressure at 100 °C (mbar)	-	-	-	-	1X10 <sup>-3</sup>

## **ISO 32**

ArtNr.	Qty.	€	8	۴	Packaging
OL6053.Q.P2	250 mL	-	24	2880	
OL6053.M.P2	500 mL	-	12	1080	
OL6053.K.P2	1 L	-	12	756	Plastic Tank
OL6053.UP.P2	1 Gal	-	02	196	FIASLIC TALIK
OL6053.I.P2	4 L	-	02	196	
OL6053.P.P2	5 L	-	02	140	
OL6053.V	20 L	-	01	22	
OL6053.T	25 L	-	01	22	Metal Tank
OL6053.B	200 L	-	01	02	
OL6053.IBC	1000 L	-	01	01	IBC Cube

#### **ISO 46**

ArtNr.	Qty.	€	8	،	Packaging	
OL6054.Q.P2	250 mL	-	24	2880		
OL6054.M.P2	500 mL	-	12	1080		
OL6054.K.P2	1 L	-	12	756	Plastic Tank	
OL6054.UP.P2	1 Gal	-	02	196	FIASLIC TATIK	
OL6054.I.P2	4 L	-	02	196		
OL6054.P.P2	5 L	-	02	140		
OL6054.V	20 L	-	01	22		
OL6054.T	25 L	-	01	22	Metal Tank	
OL6054.B	200 L	-	01	02		
OL6054.IBC	1000 L	-	01	01	IBC Cube	

## 📑 ISO 68

ArtNr.	Qty.	€	8	۴	Packaging	
OL1008.Q.P2	250 mL	-	24	2880		
OL1008.M.P2	500 mL	-	12	1080		
OL1008.K.P2	1 L	-	12	756	Plastic Tank	
OL1008.UP.P2	1 Gal	-	02	196	FIASLIC TATIK	
OL1008.I.P2	4 L	-	02	196		
OL1008.P.P2	5 L	-	02	140		
OL1008.V	20 L	-	01	22		
OL1008.T	25 L	-	01	22	Metal Tank	
OL1008.B	200 L	-	01	02		
OL1008.IBC	1000 L	-	01	01	IBC Cube	

#### ISO 46 HD HIGH VISCOSITY INDEX

ArtNr.	Qty.	€	8	¢	Packaging	
OL1010.Q.P2	250 mL	-	24	2880		
OL1010.M.P2	500 mL	-	12	1080		
OL1010.K.P2	1 L	-	12	756	Plastic Tank	
OL1010.UP.P2	1 Gal	-	02	196	Flaslic Tarik	
OL1010.I.P2	4 L	-	02	196		
OL1010.P.P2	5 L	-	02	140		
OL1010.V	20 L	-	01	22		
OL1010.T	25 L	-	01	22	Metal Tank	
OL1010.B	200 L	-	01	02		
OL1010.IBC	1000 L	-	01	01	IBC Cube	

# Oil Charging Pumps

Oil charging pumps facilitate the oil loading into the compressor of refrigeration systems by transferring it directly from the container, thus eliminating the risk of contamination with air and humidity.

- Fits the size of each container.
- Capacity per shot: 50 mL.
- 1/4" SAE Male thread.
- Maximum output pressure: 10 bar (145 psi).
- Length of closed pump: 41 cm.
- Hose length supplied: 150 cm 1/4 SAE x 1/4 SAE.

- Can be used with 10-20-25 L containers.
- Compatible with all types of refrigerant gases.
- Capacity per shot: 75 mL.
- 3/8" or 1/4" SAE Male thread (reduction included).
- Maximum output pressure: 17 bar (250 psi).
- Hose length: 150 cm 1/4 SAE x 1/4 SAE.





# $\square \mathsf{POE} \leftrightarrow \mathsf{PAG} \mathsf{Id}$

Test to Verify the Type of Refrigeration Lubricant circulating inside an AC/R System (POE or PAG)

- Recommended when performing maintenance on AC/R systems whose refrigeration lubricant is unknown.
- Works with all POE and PAG lubricants.
- Easy to use.
- Quick and accurate results in a few seconds:
   clear-looking mixture indicates PAG;
   murky-looking mixture indicates POE.
- Contains 4 tests.

ArtNr.	€	¥	•
RK1411.S1	-	12	2160



# Oil Test

Test for checking the Type of Refrigeration Lubricant inside an AC/R System

- Recommended when performing maintenance on AC/R systems whose refrigeration lubricant is unknown.
- Works with all POE, ABZ and mineral oils.
- Saves time and money by avoiding laboratory tests or the use of a refractometer.
- Avoids making the common and expensive mistake of mixing POE lubricant with mineral oils.
- Provides reliable results in just a few seconds.
- Compatible with all types of refrigerant gases.
- Contains 2 tests.

ArtNr.	€	8	•	
RK1055.S1	-	12	2160	



POE↔PAG Id

REFERCO





1

# Flushing Fluid Alternative to Decafluoropentane (Equivalent to Vertrel XF Dupont)

- Green and non-flammable formulation (hydrocarbon-based): zero ODP (ozonedepleting potential) and low GWP (global warming potential).
- Evaporates quickly and completely and does not leave residues.
- Low boiling point and low heat of evaporation.
- Removes particles and dust.
- High degreasing power.
- Removes even residual water trapped in the thinnest cracks.
- Effective even after numerous boiling cycles.
- Excellent solvent retention.
- Low surface tension.
- Excellent chemical and thermal stability, and low viscosity.
- Safe for all air conditioning and refrigeration systems.
- Requires manual or pneumatic systems for insertion.

ArtNr.	Description	€	8	•
TR1184.K.01	1 L Metal Bottle	-	12	480
TR1184.P.01	5 L Metal Tank	-	02	196
TR1184.T	25 L Metal Tank	-	01	-

# Fluid for Automatic Flushing Units

- Removes old oil, debris, and contaminants.
- Any residues are compatible with all refrigerant gases.
- Non-flammable.
- No ADR.
- Safe for all automatic flushing units.

ArtNr.	Description	€	8		
TR1142.K.01	1 L Metal Bottle	-	12	480	
TR1142.P.01	5 L Metal Tank	-	02	196	
				<	1)





# **Belnet**

#### Quick Evaporating Flushing Fluid

- Evaporates quickly and completely and does not leave residues.
- Removes old oil, debris, and contaminants.
- Safe for all air conditioning and refrigeration systems.
- Requires manual or pneumatic systems for insertion.
- Flammable.

ArtNr.	Description	€	8	*
TR1009.01	1 L Metal Bottle	-	12	480
TR1055.01	5 L Metal Tank	-	02	196

#### **Belnet Aerosol**

- Ideal for cleaning small refrigeration lines.
- Ready to use.
- High flushing pressure (8 bar/116 psi).
- Constant pressure until the cylinder is completely empty.
- Does not require additional equipment for insertion.

ArtNr.	Description	€	8	
TR1009.U.M0	600 mL Can with Rubber Cone	-	12	1008
TR1009.U.M1	600 mL Can with Thread	-	12	1008
TR1009.YW.M0	750 mL Can with Rubber Cone	-	12	672
TR1009.YW.M1	750 mL Can with Thread	-	12	672

#### **Belnet Aerosol - ACCESSORIES**

Description	€	8	
1/4 SAE Adapter 🖲	-	01	-
Flush Gun 🖲	-	01	-
Flush Gun with Hose and Ball Valve $oxtimes$	-	01	-
	Description         1/4 SAE Adapter (A)         Flush Gun (B)         Flush Gun with Hose and Ball Valve (C)	1/4 SAE Adapter A     -       Flush Gun B     -	1/4 SAE Adapter (A)         -         01           Flush Gun (B)         -         01



Safenet

B

(A)

# Safenet

#### Quick Evaporating and Non-flammable Flushing Fluid

- Evaporates quickly and completely and does not leave residues.
- Non-flammable.
- Removes old oil, debris, and contaminants.
- Safe for all air conditioning and refrigeration systems.
- Requires manual or pneumatic systems for insertion.

ArtNr.	Description	€	8	•
TR1187.K.01	1 L Metal Bottle	-	12	480
TR1187.P.01	5 L Metal Tank	-	02	196
TR1187.V	20 L Metal Tank	-	01	-

#### Safenet FLUSH

- Ideal for cleaning small refrigeration lines.
- Ready to use.
- High flushing pressure (8 bar/116 psi).
- Constant pressure until the cylinder is completely empty.
- Does not require additional equipment for insertion.

ArtNr.	Description	€	F		
TR1187.U.M0	600 mL Can with Rubber Cone	-	12	1008	
TR1187.U.M1	600 mL Can withThread	-	12	1008	-
TR1187.YW.M0	750 mL Can with Rubber Cone	-	12	672	
TR1187.YW.M1	750 mL Can with Thread	-	12	672	-



DRITE

Safenet

DECKER

# Flushing Unit for AC/R Systems with Electric Pump

EASY FLUSH is a flushing unit for AC/R systems with a manually controlled electric pump. It allows flushing the circuit clockwise and anticlockwise.

#### **Technical features:**

- Power supply: 230/240 V 50/60 Hz.
- 20 L internal tank.
- Pump capacity: 14 L/min.
- Pump power: 0,75 Kw.
- Max pump pressure: 0,45 MPa.
- Mechanical seal pump with EPDM gaskets.
- Mechanical suction filter.
- Connection for external nitrogen cylinder.
- External taps to reverse the flushing cycle without disconnecting the hoses.
- 3 m flexible hoses with 1/4 SAE ball valves.
- Adapter kit for connecting to AC/R systems.
- Interchangeable fittings: 1/4 SAE 3/8 SAE 1/2 SAE (2 pieces each).
- Weight: 20Kg. Built-in cart.

#### CAUTION!

Use this flushing unit exclusively with Alpha Flush (p.32).



# Flush Pump

FLUSH PUMP FLUSH PUMP is the most cost-effective solution for flushing large air conditioning systems.

#### **Technical features:**

- Power supply: 230/240 V 50/60 Hz.
- Pump capacity: 14 l/min.
- Pump power: 0,75 Kw.
- Max pump pressure: 0,45 MPa.
- Mechanical seal pump with EPDM gaskets.
- 2.5 m flexible hoses with female 1/4 SAE fittings.
- Interchangeable fittings: 1/4 SAE 3/8 SAE 1/2 SAE (2 pieces each).
- Transport and storage case.

#### CAUTION!

Use this flushing unit exclusively with Alpha Flush (p.32).



# Fast Flush Kit

#### **Universal Cleaning and Flushing Kit**

The kit includes:

Belnet Aerosol can with thread. Flush Gun with hose and ball valve. Disposable nitrogen cylinder 950cc. Mini pressure reducer 0÷10 bar. Adapter for 1/4 SAE swivel hose. Quick coupler BP R134a. 1/4 SAE M x 5/16 SAE F 90° adapter. Transport plastic case.









# Flushing Kit

The kit includes: Tank with flushing gun. Adapter kit for connecting to AC/R systems. 10-litre tank for recovery of contaminated liquid. Storage and transport plastic case.





# Flushing Gun

Affordable equipmet for flushing AC/R systems. Volume: 0,75 L. Ball valve with 1/4" female fitting. Hose lenght: 60 cm.  $0\div12$  bar gauge. 10 bar safety valve.

ArtNr.	Description	€	8	،
RP1027.01	Flushing Gun	-	01	-
MN1127.01	Spare Gauge	-	01	-
RP1069.01	Spare Flushing Gun	-	01	-
RP1072.01	Spare Ball Valve	-	01	-
RP1072.01	Spare Ball Valve	-	01	-



# **Flushing Adapter Kit**

These are universal adapters with 1/4 SAE male fitting that allow connection to any components of an AC/R system so that the flushing process can be carried out safely.

ArtNr.	Description	€	8	<b>*</b>
RK1332	Adapter Kit	-	01	-
RP1051.01	Spare Cone	-	01	-





#### Adapter Connection Kit for HVAC/R Equipment

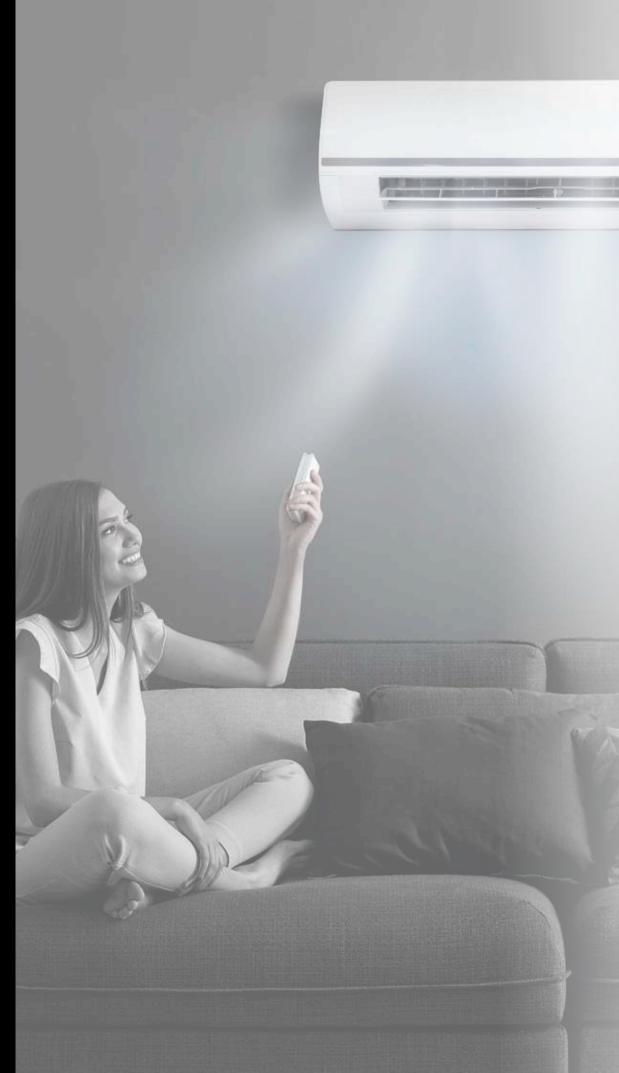
EASY PASS is a kit for the quick connection of two refrigeration hoses to enable complete flushing.











# □ NSF Certification

**NSF** (National Science Foundation) is the most accredited independent third-party certification body which, since 1944, tests and certifies products to meet precise international public health and safety standards.

#### NSF certification:

- ensures that products have been tested and found to meet the required health and safety standards;
- confirms that labelling and claims are truthful and compliant with regulations;
- demonstrates the company's commitment to quality, safety, and compliance with regulations.

Most importantly, NSF certification is not a one-time event but involves regular on-site inspections of manufacturing facilities and random re-testing of products. NSF certification, therefore, guarantees that not only the products but also the company's entire production process meets high standards of safety and reliability.

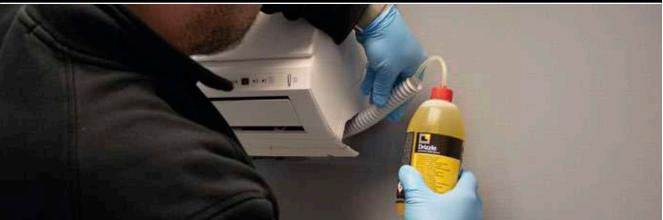


# Indoor Unit Cleaners



Errecom's **evaporator cleaners** are alkaline cleaners developed to **remove** the most stubborn deposits of **organic residues**, **grease**, **oil**, **dust**, **pollen**, **and smog** from indoor units. They quickly and effectively degrease the treated surfaces and are particularly indicated for removing dirt settled on coils. They can be diluted with water according to the dilution ratio specified on the product: the higher this ratio, the higher the concentration of active substances contained in the cleaner.

# Condensate Drain Maintenance



Errecom's condensate drain cleaners have been formulated by our in-house chemical laboratory to **remove and prevent** the development of **algae**, **mucilage**, **silt**, **and mould**. Available in liquid, gel or tablet form, regular use is recommended to **prevent air conditioner's condensate drain from clogging**.

# Ceiling Mounted Air Conditioner Cleaning Cover

- Ensures deep protection of the area around the evaporator and floors.
- Strong metal frame: easy to assemble.
- Suitable for ceiling mounted units of any size.

ArtNr.	Description	€	8	۳.
PM1010.01	Ceily	-	01	-
PM1011.01	Spare recovery bag	-	01	- 🭙



#### Air Conditioner Cleaning Cover

- Ensures complete protection of the area around the evaporator.
- Grants perfect fit for any indoor units thanks to the adjustable elastic drawstring.
- Reusable.

ArtNr.	Description	Pack	€	8	*
PM1006.01	Wally - 15 pcs	20 L Bucket	-	15	-
PM1006.S1	Wally - 15 pcs	Cardboard Box	-	15	-



# A/C Cleaning Brushes

ArtNr.	Description	€	8	<b>*</b>
RL1034.01	(A) Brush	-	-	-
RL1035.01	B Soft Bristle Duster	-	-	-



# Cleaning Biodegradable Tabs for Condensate Drain

- Highly biodegradable formulation (over 99%).
- Also available in MINI format.
- 1 tab every 25/30 days.

-	12	-
-	06	-
	-	- 12 - 06



## Cleaning and Maintenance of Indoor Units





1/2 tabs every 15/20 days for units up to 12,000 Btu/H (3 kW).







- Removes and prevents the development of algae, mucilage, silt, and mould.
- Prevents air conditioner's condensate drain from clogging.
- Ready to use.
- New design: swan neck spout to simplify the application process.

#### Drizzle: liquid formulation. Lavender scented.

**Drizzle Gel:** gel formulation to perfectly adhere to the air conditioner drain line. Aloe scented.

**Drizzle Enzi:** the enzymatic formulation in gel ensures a long-lasting cleaning and unblocking action. Eco-friendly formulation to ensure deeper cleaning with less chemical. Aloe scented.

ArtNr.	Description	Quantity	€	8		
AB1078.M.S1	Drizzle	500 mL	-	06	570	READ
AB1078.K.S1	Drizzle Bottle without swan neck spout	1 L	-	-	-	R
AB1249.M.S1	Drizzle Gel	500 mL	-	-	-	
AB1250.M.S1	Drizzle Enzi	500 mL	-	-	-	
	and the second		15			



## Starlux

#### Foamy Cleaner for Air Conditioner Surfaces

- Removes dust, stubborn dirt, grease, and stains.
- Foam formulation to better adhere on both wall-mounted and ceiling cassette air conditioners.
- Can be used on plastic and metal casings.
- Perfect to clean all plastic surfaces.

ArtNr.	€	8	•
AB1226.N.01	-	12	1344

# and the second sec

## Cleaning and Maintenance of Indoor Units

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- Easily removes dust, germs, mould, contaminants, and harmful agents.
- Eliminates the causes of bad odours, leaving a pleasant and long-lasting scent. н.
- Quick and effective application. ÷.
- ÷. Ready to use.

**RTU** 

HACCP compliant. ÷.

ArtNr.	Description	€	8	•
AB1077.K.S1	1 L Spray Bottle	-	06	570
	<b>6.3%</b>			
READY TO USE	티월스턴			



# Evaporator Cleaner

- Purifies A/C ducts, incorporating and removing contaminants such as dust, dirt, 10 allergens, and microorganisms that often cause bad odours.
- Restores the indoor air quality releasing a pleasant scent. н.
- Easy to use thanks to the cannula. н.
- Quick and effective action. Ready to use. Does not require rinsing. ÷.
- Also available in the foaming version EVAPORATOR CLEANER FOAM, whose н. formula incorporates and removes even the hardest to reach dirt.
- HACCP compliant.

ArtNr.	Evaporator Cleaner Foam	€	8	•
AB1049.F.01	100 mL	-	30	4800
AB1049.J.01	200 mL	-	24	2376
AB1049.N.01	400 mL	-	12	1344
ArtNr.	Evaporator Cleaner	€	8	-
AB1084.J.01	200 mL	-	24	2376
AB1084.N.01	400 mL	-	12	1344
7101001111.01	100 ME		12	10



# Evap Coil+

#### NSF Certified Evaporator Cleaner

- NSF certified (K4).
- Purifies A/C ducts, incorporating and removing contaminants such as dust, dirt, allergens, and microorganisms that often cause bad odours.
- Quickly and successfully restores the indoor air quality.
- Easy to use thanks to the long cannula.
- Ready to use.

**NEWS** 2022

- Does not require rinsing. Also available in the foaming version EVAP COIL F+, whose formula incorporates and removes even the hardest to reach dirt.
- HACCP compliant.

ArtNr.	Description	€	8	•	
AB1247.N.01	Evap Coil+	-	-	-	
AB1248.N.01	Evap Coil F+	-	-	-	404
				•	
			A		TU

## Cleaning and Maintenance of Indoor Units

CRUTELON

**Power Clean - IN** 

**High-pressure Evaporator Cleaner** 



- 1:20 dilution.
- Can be diluted with any type of water, even the hardest one.
- Leaves no marks or residues on treated surfaces.
- Eco-friendly glass packaging.

ArtNr.	€	8	<b>*</b>
AB1225.Q.S1	-	24	-

#### 1:20 MAX DILUTION



## Cleaning and Maintenance of Indoor Units

# Revitalizing Cleaner for Evaporators

- Purifying and revitalizing action.
- Scented.
- Ready to use.

ArtNr.	Description	€	8	-
AB1073.K.S1	1 L Spray Bottle	-	06	570
AB1073.P.01	5 L Tank	-	02	144
AB1073.D.01	10 L Tank	-	01	48



#### **Concentrated Revitalizing Cleaner for Evaporators**

- Purifying and revitalizing action.
- Scented.

ArtNr.	Description	€	8		
AB1074.K.S1	1 L Spray Bottle - RTU	-	06	570	1:3
AB1074.P.01	5 L Tank	-	02	144	MAX DILUTION
AB1074.D.01	10 L Tank	-	01	48	



RT

111

Eco Jab

CEPPERD

DROCE

# Clench

#### Descaling Cleaner with Anticorrosive Action for Evaporators

- Powerful descaling action: acts like an acid-based cleaner, removing the most stubborn salt deposits despite its alkaline formulation.
- Ideal for restoring unkept indoor units.
- Recommended for applications in very aggressive environments.

ArtNr.	Description	€	8	•	
AB1069.K.S1	1 L Spray Bottle - RTU	-	06	570	Γ
AB1069.P.01	5 L Tank	-	02	144	
AB1069.D.01	10 L Tank	-	01	48	



1:5

1:6

#### **Eco Jab** Biodegradable Evaporator Cleaner

- Highly biodegradable formulation that exceeds current European standards.
- Contains only natural surfactants.
- Does not contain acids, phosphates, solvents, or soda.
- Unscented formulation: particularly suitable to be used in environments with food.

ArtNr.	Description	€	8	
AB1071.K.S1	1 L Spray Bottle - RTU	-	06	570
AB1071.P.01	5 L Tank	-	02	144
AB1071.D.01	10 L Tank	-	01	48

# Cleaning and Maintenance of Indoor Units



#### **Highly Effective Cleaner for Evaporators**

- OEM approved.
- Extremely effective and versatile, ideal for recurring cleaning of indoor units.
- Removes even the most stubborn dirt from metal and plastic surfaces.
- Scented

ArtNr.	Description	€		
AB1068.K.S1	1 L Spray Bottle - RTU	-	06	570
AB1068.P.01	5 L Tank	-	02	144
AB1068.D.01	10 L Tank	-	01	48



#### PH7 Cleaner **Neutral Evaporator Cleaner**

- Neutral formulation: effective against both grease and salt deposits.
- Powerful yet gentle formula.
- Neutralises and removes unpleasant odours, leaving a long-lasting scent.
- Ready to use.

ArtNr.	Description	€	8	-	
AB1219.K.S1	1 L Spray Bottle - RTU	-	06	570	
AB1219.P.01	5 L Tank	-	02	144	
AB1219.D.01	10 L Tank	-	01	48	

#### Universal Nano Cleaner All-purpose Cleaner for Air Conditioning Systems

All-purpose cleaner: ideal to clean both evaporators and condensers.

#### Dilution:

- 1:6 for evaporators;
- RTU for condensers.

ArtNr. Description		€	8	•
AB1105.K.S1	1 L Spray Bottle - RTU	-	06	570
AB1105.P.01	5 L Tank	-	02	144
AB1105.D.01	10 L Tank	-	01	48

MAX DILUTION
CONDENSER CLEANING
RTU
READY TO USE

1:6

1:15

**NEWS** 2022

1.6

# **SGP Coil Cleaner**

#### **NSF Certified Universal Alkaline Cleaner**

- NSF certified (K5).
- Eco-friendly cleaner: non-foaming formula to ensure faster rinsing.
- Biodegradable.
- Anticorrosive action.

#### Scented.

#### Dilution

- 1:6 for condensers - 1:10 for evaporators - 1:15 for A/C filters

ArtNr.	Description	€	8	-	
AB1244.K.S1	1 L Spray Bottle - RTU	-	06	570	
AB1244.P.01	5 L Tank	-	02	144	

# Cleaning and Maintenance of Indoor Units









# Sanitisation and Cleaning of Rooms and Surfaces

Foggy Kit

Purifying Interior Treatment with Dry Smoke - 48 Applications

- Includes Kemuri, the smoke machine, and 48 bottles of KIRI, the purifying active substance, which is EN1276, EN14476, EN1650, EN16777, and EN13697 certified.
- Takes only a few minutes to complete the whole purifying treatment.
- Purifies even the most difficult-to-reach surfaces.
- Purifies both surfaces and A/C ducts, restoring the indoor air quality.
- Safe for all surfaces, fabrics, and electronic equipment.
- Does not add additional moisture to the environment.
- Long-lasting purifying protection.

ArtNr.	€	8	-
RK1455	-	-	-

# **L** Kemuri

#### The Purifying Smoke Machine

- 3 cycles to complete the purifying treatment.
- Cable control. Power supply: 230V.
- Boiler: 400W. Emission: 10 m<sup>3</sup>/minute (350 ft<sup>3</sup>/ minute).
- Preheating: about 3-5 minutes.
- Liquid consumption: 30 min/200 mL (30 min/6.7 fl oz).
- Liquid tank capacity: 200 mL (6.7 fl oz).
- Size (LxHxD): 120x120x240 mm (4.7x4.7x9.4 in). Weight: 1,4 kg (3 lb).

ArtNr.	€	8	-	
VP1055.01	-	-	-	

# Purifying Active Substance for Kemuri

- EN1276, EN 14476, EN1650, EN16777, EN 13697 certified.
- Registered disinfectant in Germany (Reg. N-98454), Austria, and the UK.
- Powerful purifying action: 1 mL to purify 1 m<sup>3</sup> (0.033 fl oz to purify 35 ft<sup>3</sup>).
- Lemon tree scented.

Art	Nr.	€	8	-	
AB1109.	Y.01	-	-	-	
EN 1276	EN 1650	13	N 697 14	EN 1476	EN 1677

#### **C** Interior Purifier Purifying Interior Treatment

- Saturates the environment with purifying molecules thanks to the continuous flow coming out from the total release aerosol can.
- Removes contaminants from surfaces and A/C ducts.
- Does not wet or leave marks.
- Ventilate the room after the treatment. For a complete purifying action, Errecom recommends using first Evaporator Cleaner Foam or Evaporator Cleaner.

BY ANNATWELVE		TWELVE	BOREAL ArtNr.	ROYALE ArtNr.	€ ♥	$\checkmark$				
	200	mL	AB1235.J.01	AB1236.J.01	- 24				100	NCT BOOM
		Talc ArtNr.	Strawberry ArtNr.	Peach ArtNr.	Mint ArtNr.	Lemon ArtNr.	Vanilla ArtNr.	Green Apple ArtNr.	€	8
	200 mL	AB1056.J.0	1 AB1057.J.01	AB1058.J.01	AB1050.J.01	AB1059.J.01	AB1060.J.01	AB1061.J.01	-	24
	400 mL	AB1056.N.0	1 AB1057.N.01	AB1058.N.01	AB1050.N.01	AB1059.N.01	AB1060.N.01	AB1061.N.01	-	12









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# Pure Zone Machine

**Professional Ultrasonic Nebuliser** 

#### **Technical Features:**

- Power supply: 100-220V 50/60 Hz.
- Schuko plug.
- Power supply: 12V with cigarette lighter socket adapter.
- Cycle time: 11' 45" at 20°C.
- Automatic switch-off when minimum liquid is reached.
- Noise level: ≤ 70 dB.
- Operating temperature: 0°C ÷ 60°C.
- Nebulisation rate: ≈ 500 mL/h.
- Fan flow: 34m3/h.
- Size: L285 X P130 X H210 mm.
- Weight: 3.1 Kg.

ArtNr.	Description	€	P	<b>*</b>
AB1032 PureZone Machine		-	01	56

# Purifying Treatment for Ultrasonic Nebulizers

HAZE is a purifying liquid to be used with ultrasonic nebulizers.

	Pure ArtNr.	Mint ArtNr.	Lemon ArtNr.	€	8	•
120 mL	AB1240.G.01	AB1239.G.01	AB1238.G.01	-	12	3828
200 mL	AB1240.J.01	AB1239.J.01	AB1238.J.01	-	10	-
5 L	AB1240.P.01	AB1239.P.01	AB1238.P.01	-	02	168
10 L	AB1240.D.01	AB1239.D.01	AB1238.D.01	-	01	48

	Smoki ArtNr.	Woofi ArtNr.	Killer Odor ArtNr.	€	8	٠
120 mL	AB1242.G.01	AB1241.G.01	AB1041.G.01	-	12	3828
200 mL	AB1242.J.01	AB1241.J.01	AB1041.J.01	-	10	-
5 L	AB1242.P.01	AB1241.P.01	AB1041.P.01	-	02	168
10 L	AB1242.D.01	AB1241.D.01	AB1041.D.01	-	01	48



Total Care

PureZone Machine

Ultrasonic Nebuliae

PureZone

#### **L** Total Care Indoor Air Quality Treatment

- Consists of two aerosol cans, EVAPORATOR CLEANER FOAM and INTERIOR PURIFIER, which guarantee deep and complete purification of A/C ducts and rooms up to 20 m<sup>2</sup> (215 ft<sup>2</sup>).
- Removes dust, allergens, and contaminants from evaporator coils and surfaces.
- Ready and easy to use.
- Does not wet or leave marks.
- Does not require rinsing.
- Ventilate the room after the treatment.
- 7 scents available.



#### TOTAL CARE (Evaporator Cleaner Foam + Interior Purifier)

CIAL CARE (		anor rounn ri		,					
Talc ArtNr.	Strawberry ArtNr.	Peach ArtNr.	Mint ArtNr.	Lemon ArtNr.	Vanilla ArtNr.	Green Apple ArtNr.	€	8	
RKAB37.S1	RKAB38.S1	RKAB39.S1	RKAB36.S1	RKAB40.S1	RKAB41.S1	RKAB42.S1	-	12	-



# High-pressure Purifying Treatment for Interiors

- 600 mL can: quickly purifies room up to 70 m<sup>2</sup> 753 ft<sup>2</sup>.
- Ideal to purify offices, shops, restaurants, schools, classrooms, etc.
- Easy to use: it takes only 30 seconds to purify 70 m<sup>2</sup> (753 ft<sup>2</sup>) thanks to the н. high-pressure format (20 mL/second).
- Removes and eliminates contaminants, dust, allergens, etc.
- Ready to use.
- Scented.

ArtNr.		Description	€	8	•
AB1229.U.01	Can		-	12	1008



# Ligh-pressure Scented Treatment for Interiors

- In just a few seconds, it leaves a pleasant scent throughout the room.
- Long-lasting scent.
- Available in 3 fragrances and the new odour-removing formulation to eliminate bad odours of any kind.

ArtNr.	Description	€	8	•
AB1216.U.01	Lemon Can	-	12	1008
AB1217.U.01	Mint Can	-	12	1008
AB1218.U.01	Pure Can	-	12	1008
AB1224.U.01	No Odor Can	-	12	1008



🗔 CleanSi

#### 80% Alcohol-based Surface Cleaner

- 80% alcohol-based formulation: removes microorganisms such as bacteria, germs, allergens, dirt, grease, marks, etc.
- Perfect to clean A/C filter and ducts and high-touch surfaces such as handles, handrails, buttons, vending machines, desks, etc.
- Ready to use.
- Does not require rinsing.
- Evaporates guickly and completely without leaving residues or marks.
- HACCP compliant.

ArtNr.	Description	€	8	<b>*</b>	
AB1228.N.01	Can	-	12	1344	
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			$\checkmark$		



# Sanitisation and Cleaning of Rooms and Surfaces

## SaniBact

#### **Concentrated Virucidal and Bactericidal Disinfectant**

- Disinfectant certified in 8 countries: United Kingdom, Germany, Italy (registration N20145), France, Spain, Portugal, Poland, and Israel.
- Highly concentrated disinfectant.
- Dilution: 1:16 to obtain virucidal efficacy 1:25 to obtain bactericidal efficacy Tester leaster leaster leaster
- Tested against coronavirus.
- Tested against influenza, hepatitis B/C, HIV, ebola, rotavirus, norovirus.
- Tested against bacteria: EN1276 EN13697.
- Tested against moulds: EN13697.
- Removes viruses, germs, mould, and bacteria from high-touch surfaces.
- Perfect to sanitise hospitals, clinics, schools, gyms, pubs, restaurants, hotels, etc.
- Can be applied both in liquid and foam form thanks to the special trigger.
- Its formulation is based on 3 active substances that work together, making
- SaniBact a powerful disinfectant, suitable to be used in different circumstances Acts in just 5 minutes.
- Safe for all surfaces: it does not leave aggressive chemical residues.
- HACCP compliant.

Description	€	8	•
1 L Spray Bottle	-	06	570
5 L Tank	-	02	168
10 L Tank	-	01	48
500 mL Bottle	-	-	-
250 mL Bottle	-	-	-
	Description 1 L Spray Bottle 5 L Tank 10 L Tank 500 mL Bottle 250 mL Bottle	1 L Spray Bottle-5 L Tank-10 L Tank-500 mL Bottle-	1 L Spray Bottle         -         06           5 L Tank         -         02           10 L Tank         -         01           500 mL Bottle         -         -



# SmartBact

RTU Disinfectant Kit

Consists of a 500 mL bottle of SaniBact, a 20 mL measuring cap and a 500 mL spray bottle.

ArtNr.	Description	€	8	<b>*</b>
RKAB86.S1	1 L SmartBact	-	08	-
RKAB85.S1	500 mL SmartBact	-	09	-







Ready to use: do not dilute with water.

ArtNr.	Description	€	8	•
AB1085.K.RTU	1 L Bottle	-	09	-

N.B. SaniBact RTU, is currently not for sale in: Italy, Poland, Spain, France, and Portugal.





SaniBact

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# Sanitisation and Cleaning of Rooms and Surfaces

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- Ideal to be applied directly on smelly surfaces.
- Does not cover the smoke odour but eliminates it permanently by incorporating its molecules.
- Safe for all surfaces.
- Does not require to ventilate the room after the treatment.
- Long-lasting efficacy.

ArtNr.	Description	€	P	•
AB1087.K.S1	1 L Spray Bottle	-	06	570
AB1087.J.01	200 mL Can	-	-	-





# Odour Removal Treatments for Environments and Surfaces

## Odour Removal Treatments for Environments and Surfaces



- Ideal to be applied directly on smelly surfaces.
- Does not cover the pet odour but eliminates it permanently by incorporating its molecules.
- Safe for pets.
- Does not damage surfaces.
- Does not require to ventilate the room after the treatment.
- Long-lasting efficacy.

ArtNr.	Description	€	8	•
AB1088.K.S1	1 L Spray Bottle	-	06	570
AB1088.J.01	200 mL Can	-	-	-





#### L No Odor Intense Bad Smell Remover

- Intense Bad Smell Remover
- Ideal to be applied directly on smelly surfaces such as floors, trash bins, drains, etc.
- Does not cover bad odours but eliminates them permanently by incorporating their molecules. Long-lasting efficacy.
- Highly powerful formulation, effective even against the most unpleasant odours.
- Safe for all surfaces (metals, plastics, etc.).
- HACCP compliant.

ArtNr.	Description	€	¥	<b>*</b>
AB1066.K.S1	1 L Spray Bottle	-	06	570
AB1066.P.01	5 L Tank	-	02	144
AB1066.D.01	10 L Tank	-	01	48





#### **Urin Odour Remover**

- Ideal to be applied directly on smelly surfaces such as doorways, passageways, floors, etc.
- Does not cover urine odour but eliminates it permanently by incorporating its molecules. Long-lasting efficacy.
- Generates a repellent effect on pets, correcting bad habits and preventing them from urinating on the treated area. Safe for pets.
- Pleasant scent for humans.
- Can be sprayed on all surfaces (metal, plastics, wood, cement, etc.). Does not damage materials and leaves no residue.

ArtNr.	Description	€	8	
AB1091.K.S1	1 L Spray Bottle	-	06	570
AB1091.P.01	5 L Tank	-	02	144
AB1091.D.01	10 L Tank		01	48







## Odour Removal Treatments for Environments and Surfaces



# 6 8 365J DETES 1 2 ł. 0 A .00

Cleaning and Maintenance of outdoor Units

# Portable A/C Coil Cleaning Machine

- Designed and tested for use with water, acid and alkaline cleaners.
- Increases the cleaning power of Errecom's cleaners without damaging evaporator and condenser coils.
- Safe for all components of air conditioning and refrigeration systems.
- Working pressure: 6 bar (85 psi).
- 3 interchangeable and resealable 9 Litre (2.4 gal) bags.
- Adjustable spray tip.

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- Hose length: 300 cm (118 in).
- Rechargeable battery 12V 2,200 mH.
- Operating time: up to 30 minutes.
- Includes battery charger 110-220 V.

ArtNr.	Description	€	8	
VP1050.01	JETGUN	-	01	-
VP1052.01	JETGUN PRO	-	01	

#### **Spare Parts Jet Gun**

ArtNr.	Description	8
RP1067.01	Dispensing Gun	-
RG9014.05	Plastic Quick Coupler Seals	-
RV6037.01	Plastic Female Quick Coupler for Black Hose	-
RV6039.01	Plastic Female Fitting for Connecting Bags	-
RV6038.01	Plastic Male Fitting for Connecting Bags	-
TB1025.01	3 m PVC Hose	-
PW1007.01	12,000 mAh Lithium-ion Battery	-
PW1005.01	Charger	-
RPL001.01	Shoulder Strap	
FL1100.01	Plastic Bag	-





# **Spray Pumps**

It is a tank that can be manually pressurised and resists acid cleaners, whose adjustable nozzle allows any type of cleaner to be dispensed directly onto evaporators and condensers.

ArtNr.	Description	€	8	
PM1001.01	2 L Spray Pump	-	01	-
PM1003.01	10 L Spray Pump	-	01	-



## Cleaning and Maintenance of Outdoor Units

# Alkaline Cleaners

Errecom's **condenser cleaners** are alkaline cleaners developed to **remove** the most stubborn deposits of **organic residues**, **grease**, **oil**, **dust**, **pollen**, **and smog** from outdoor units. They quickly and effectively degrease the treated surfaces and are particularly indicated for removing dirt settled on coils.

They can be diluted with water according to the dilution ratio specified on the product: the higher this ratio, the higher the concentration of active substances contained in the cleaner.

Avoid contact with varnished surfaces. Rinse the condenser thoroughly after application.



## Cleaning and Maintenance of Outdoor Units

# Mild Alkaline Condenser Cleaner

- Particularly suitable to be used in environments with food.
- Powerful purifying action.
- Ideal to be used for regular cleaning.

ArtNr.	Description	€	8	•	
AB1067.K.S1	1 L Spray Bottle - RTU		06	570	1:3
AB1067.P.01	5 L Tank		02	144	MAX DILUTION
AB1067.D.01	10 L Tank	-	01	48	

#### **EcoRestore** Biodegradable Alkaline Condenser Cleaner

- Highly biodegradable formulation that exceeds current European standards.
- Contains only natural surfactants.
- Does not contain acids, phosphates, solvents, or soda.
- OEM approved.

ArtNr.	Description	€	8	۳	OEM
AB1072.K.S1	1 L Spray Bottle - RTU	-	06	570	APPROVED
AB1072.P.01	5 L Tank		02	144	1:4
AB1072.D.01	10 L Tank	-	01	48	MAX DILUTION
					•

## **Chisel**

#### Alkaline Descaler Cleaner with Anticorrosive Action for Condensers

- Powerful descaling action: acts like an acid-based cleaner, removing the most stubborn salt deposits.
- Anticorrosive formula.
- Ideal for restoring unkept outdoor units.
- Recommended for applications in very aggressive environments.

ArtNr.	Description	€	8	•	
AB1070.K.S1	1 L Spray Bottle - RTU	-	06	570	4.4
AB1070.P.01	5 L Tank	-	02	144	
AB1070.D.01	10 L Tank	-	01	48	
					F

#### **L** No-Age Anticorrosive Protective Treatment for Outdoor Units

- Creates a protective film that defends surfaces from contaminants such as salt and smog, preventing metal corrosion.
- Maintains unaltered heat exchange.
- Ideal to use on condensers installed in highly oxidising environments (seaside locations, heavily polluted areas) and subject to salt, acid rain, and smog attack.

ArtNr.	Description	€	8	-	_
AB1100.K.S1	1 L Spray Bottle	-	06	570	READY TO U
AB1100.P.01	5 L Tank	-	02	144	RIC
AB1100.D.01	10 L Tank	-	01	48	

# Cleaning and Maintenance of Outdoor Units

EcoRestore

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DECCM

# □ Acid Cleaners

Errecom's acid condenser cleaners are developed to **remove** the most stubborn encrustations, such as **limestone**, **salt**, **rust**, **concrete**, **and chalk residues**. They quickly and effectively descale the treated surfaces and are particularly suitable for removing dirt settled on coils. They can be diluted with water according to the dilution ratio specified on the product: the higher this ratio, the higher the concentration of active substances contained in the cleaner.

Avoid contact with varnished surfaces. Rinse the condenser thoroughly after application.

# Concentrated Acid Condenser Cleaner

Effective foaming and powerful descaling action.

ArtNr.	Description	€	8	•	
AB1107.K.S1	1 L Spray Bottle - RTU	-	06	570	1:
AB1107.P.01	5 L Tank	-	02	144	MAX DILL
AB1107.D.01	10 L Tank	-	01	48	





Effective foaming action.

ArtNr.	Description	€	P	•	
AB1044.K.S1	1 L Spray Bottle - RTU	-	06	570	<b>1</b> .6
AB1212.P.01	5 L Tank	-	02	144	MAX DILUTION
AB1212.D.01	10 L Tank	-	01	48	





# **PSD** Coil Cleaner

Acid Condenser Coil Cleaner

Affordable and effective cleaning.

ArtNr.	Description	€	8	*	
AB1245.K.S1	1 L Spray Bottle - RTU	-	06	570	1:3 MAX DILUTION
AB1245.P.01	5 L Tank	-	02	144	



- Active substance for deep and effective cleaning of condensers.
- 1:20 dilution.
- Can be diluted with any type of water, even the hardest one.
- Leaves no marks or residues on treated surfaces.
- Eco-friendly glass packaging.

ArtNr.	€	8	*
AB1222.Q.S1	-	24	-







#### **Cleaning Acid Tabs for Condensers**

- 1 tab (20g) to obtain 5 L of ready-to-use descaler cleaner.
- Can be used with any water, even the hardest one.
- Recommended for recurring cleaning.
- Releases a pleasant scent.









Acid Ultra

# Power Clean-OUT

High-pressure Condenser Cleaner

- High-pressure cleaner.
- Safe for condenser coils.
- Easily removes even the most stubborn dirt.







# Cleaning and Maintenance of Outdoor Units

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- Optimises and reduces welding and soldering time.
- Ensures excellent welding tight.
- Ensures thorough cleaning of the surfaces to be welded.
- Leaves a dry, stain-free surface.
- Easy to use.

**NEWS** 2022

- Safe for the operator.
- Suitable for use on iron, steel, copper, brass, aluminium.
- Also ideal for welding of copper and copper alloys, copper and steel alloys, copper and brass alloys, copper and bronze alloys, copper and stainless steel alloys, brass and stainless steel alloys.

#### STEP 1 – Deoxidizing Cleaner

- Removes oxides caused by the atmosphere (rust) and by welding or heat treatments, calamine from metal and steel, oxide layers and encrustations of any kind from alloys such as copper and brass.
- Pickling action.
- Protects surfaces from oxidation for approx. 90 min.

#### STEP 2 – Protective Neutraliser

- Removes any residues resulting from the application of step 1 and the welding work carried out.
- Prevents the growth of oxides after welding.
- Protects the metal from corrosion by creating a protective film.

ArtNr.	€	8	۳.
TR1194.01	-	12	-





# Welding AC/R Components and Refrigerant Lines

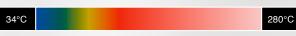
# Welding AC/R Components and Refrigerant Lines





- Absorbs and stops the heat during welding or soldering, preventing the areas around the point from burning or deforming.
- Avoids expensive heat damages by protecting components or materials during welding/soldering.
- Compatible and safe also for painted or varnished surfaces.
- Putty formulation: it perfectly adheres without dripping, slipping, or leaving residue.
- Re-usable up to 40 times.
- Easy to use.
- Safe and non-toxic formulation.

ArtNr.	Description	€	8	*
TR1173.01	500 gr Jar	-	12	-





#### Heat Blocking Gel for Welding

- Protects surrounding surfaces from heat and flame during welding or soldering operations.
- Avoids expensive heat damages by protecting components or materials during welding/soldering.
- Compatible and safe also for painted or varnished surfaces.
- Gel formulation: it perfectly adheres without dripping, staining, or leaving residue.
- Easy to use.
- Safe and non-toxic formulation.



280°C



# Shield-It H<sub>2</sub>O

Water-based Protective Barrier Spray for Welding - Non-flammable

- Creates a protective barrier over the weld area during welding operations.
- Prevents drops of filler material from sticking to metals and materials near the welding area.
- Easily removes welding residues.
- Ideal to be used with PROTECT GEL which blocks heat transfer during welding/soldering operations.
- Easy to use.
- Can be easily wiped off with a cloth.
- Water-based aerosol formulation: safe for the operator and non-flammable.

ArtNr.	Description	€	8	<b>*</b>
TR1164.N.01	400 mL Aerosol Can	-	12	1344







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# Welding AC/R Components and Refrigerant Lines





#### 1-Way Manifold Ø 68 mm

ArtNr.	Fitting	Refrigerant Scale	Class	€
MN1115.01	1/4 SAE	R32 - R410a	1.0	-
MN1116.01	5/16 SAE	R32 - R410a	1.0	-
MN1117.01	1/4 SAE	R32 - R410a	1.0	-
MN1118.01	5/16 SAE	R32 - R410a	1.0	-

#### 2-Way Manifold Ø 68 mm

ArtNr.	Fitting	Refrigerant Scale	Class	€
MN1119.01	1/4 SAE	R32 - R410a	1.0	-
MN1120.01	5/16 SAE	R32 - R410a	1.0	-

#### 4-Way Manifold Ø 68 mm

ArtNr.	Fitting	Refrigerant Scale	Class	€
MN1121.01	1/4 SAE	R32 - R410a	1.0	-
MN1122.01	5/16 SAE	R32 - R410a	1.0	-

#### 4-Way Ball Valve Manifold Ø 68 mm

ArtNr.	Fitting	Refrigerant Scale	Class	€
MN1123.01	1/4 SAE	R32 - R410a	1.0	-
MN1124.01	5/16 SAE	R32 - R410a	1.0	-

#### Smart Tester

#### Test for Air Conditioning and Refrigeration Systems

SMART TESTER is an extremely simple and innovative equipment to check and, if necessary, add refrigerant gas in A/C systems without using any other equipment (scale, hoses and manifold gauges).

- Ergonomic handle.
- Plastic case.
- 68 mm Ø gauge.

 Art.-Nr.
 €
 ❤

 MN1091.01
 01

# Manifolds for Air Conditioning and Refrigeration Systems

# ERRECOM Charging Hoses SAE J2196 SAE J2888

#### In-line swivel connections 1/4 SAE

Cm	Blue	Red	Yellow	€
100	TB7451B	TB7451R	TB7451Y	-
150	TB7802B	TB7802R	TB7802Y	-
200	TB7551B	TB7551R	TB7551Y	-
300	TB7651B	TB7651R	TB7651Y	-
350	TB7751B	TB7751R	TB7751Y	-

#### In-line swivel connections at 45° 1/4 SAE

Cm	Blue	Red	Yellow	€
100	TB7487B	TB7487R	TB7487Y	-
150	TB7804B	TB7804R	TB7804Y	-
200	TB7587B	TB7587R	TB7587Y	-
300	TB7283B	TB7283R	TB7283Y	-
350	TB7907B	TB7907R	TB7907Y	-

#### In-line swivel connections 5/16 SAE

Blue	Red	Yellow	€
TB7452B	TB7452R	TB7452Y	-
TB7803B	TB7803R	TB7803Y	-
TB7552B	TB7552R	TB7552Y	-
TB7652B	TB7652R	TB7652Y	-
TB7752B	TB7752R	TB7752Y	-
	TB7452B TB7803B TB7552B TB7652B	TB7452B         TB7452R           TB7803B         TB7803R           TB7552B         TB7552R           TB7652B         TB7652R	TB7452B         TB7452R         TB7452Y           TB7803B         TB7803R         TB7803Y           TB7552B         TB7552R         TB7552Y           TB7652B         TB7652R         TB7652Y

#### □ In-line swivel connections at 45° 5/16 SAE

Cm	Blue	Red	Yellow	€
100	TB7488B	TB7488R	TB7488Y	-
150	TB7805B	TB7805R	TB7805Y	-
200	TB7588B	TB7588R	TB7588Y	-
300	TB7284B	TB7284R	TB7284Y	-
350	TB7908B	TB7908R	TB7908Y	-

#### □ In-line swivel connections at 90° 1/4 SAE

Cm	Blue	Red	Yellow	€
100	TB7489B	TB7489R	TB7489Y	-
150	TB7806B	TB7806R	TB7806Y	-
200	TB7589B	TB7589R	TB7589Y	-
300	TB7285B	TB7285R	TB7285Y	-
350	TB7909B	TB7909R	TB7909Y	-

#### Ball valve 1/4 SAE connection

Cm	Blue	Red	Yellow	€
100	TB7463B	TB7463R	TB7463Y	-
150	TB7808B	TB7808R	TB7808Y	-
200	TB7563B	TB7563R	TB7563Y	-
300	TB7663B	TB7663R	TB7663Y	-
350	TB7763B	TB7763R	TB7763Y	-

#### Ball valve at 45° 1/4 SAE

100         TB7491B         TB74           150         TB7810B         TB78           200         TB7591B         TB75           300         TB7287B         TB72	
200 TB7591B TB75	91R TB7491Y -
	10R TB7810Y -
300 TB7287B TB72	91R TB7591Y -
350 TB7911B TB79	87R TB7287Y -

#### Ball valve at 90° 1/4 SAE

Cm	Blue	Red	Yellow	€
100	TB7493B	TB7493R	TB7493Y	-
150	TB7812B	TB7812R	TB7812Y	-
200	TB7593B	TB7593R	TB7593Y	-
300	TB7289B	TB7289R	TB7289Y	-
350	TB7913B	TB7913R	TB7913Y	-

#### In-line swivel connections at 90° 5/16 SAE

Cm	Blue	Red	Yellow	€
100	TB7490B	TB7490R	TB7490Y	-
150	TB7807B	TB7807R	TB7807Y	-
200	TB7590B	TB7590R	TB7590Y	-
300	TB7286B	TB7286R	TB7286Y	-
350	TB7910B	TB7910R	TB7910Y	-

#### Ball valve 5/16 SAE connection

Cm	Blue	Red	Yellow	€
100	TB7464B	TB7464R	TB7464Y	-
150	TB7809B	TB7809R	TB7909Y	-
200	TB7564B	TB7564R	TB7564Y	-
300	TB7664B	TB7664R	TB7664Y	-
350	TB7764B	TB7764R	TB7764Y	-



#### Ball valve at 45° 5/16 SAE

Cm	Blue	Red	Yellow	€
100	TB7492B	TB7492R	TB7492Y	-
150	TB7811B	TB7811R	TB7811Y	-
200	TB7592B	TB7592R	TB7592Y	-
300	TB7288B	TB7288R	TB7288Y	-
350	TB7912B	TB7912R	TB7912Y	-

#### Ball valve at 90° 5/16 SAE

Cm	Blue	Red	Yellow	€
100	TB7494B	TB7494R	TB7494Y	-
150	TB7813B	TB7813R	TB7813Y	-
200	TB7594B	TB7594R	TB7594Y	-
300	TB7290B	TB7290R	TB7290Y	-
350	TB7914B	TB7914R	TB7914Y	-



# CONTINENTAL Charging Hoses SAE J2196 SAE

#### In-line swivel connections 1/4 SAE

Cm	Blue	Red	Yellow	€
100	TB7401B	TB7401R	TB7401Y	-
150	TB7814B	TB7814R	TB7814Y	-
200	TB7501B	TB7501R	TB7501Y	-
300	TB7601B	TB7601R	TB7601Y	-
350	TB7701B	TB7701R	TB7701Y	-

#### In-line swivel connections at 45° 1/4 SAE

Cm	Blue	Red	Yellow	€
100	TB7495B	TB7495R	TB7495Y	-
150	TB7816B	TB7816R	TB7816Y	-
200	TB7595B	TB7595R	TB7595Y	-
300	TB7291B	TB7291R	TB7291Y	-
350	TB7915B	TB7915R	TB7915Y	-

#### □ In-line swivel connections at 90° 1/4 SAE

Cm	Blue	Red	Yellow	€
100	TB7497B	TB7497R	TB7497Y	-
150	TB7818B	TB7818R	TB7818Y	-
200	TB7597B	TB7597R	TB7597Y	-
300	TB7293B	TB7293R	TB7293Y	-
350	TB7917B	TB7917R	TB7917Y	-

#### Ball valve 1/4 SAE connection

Cm	Blue	Red	Yellow	€
100	TB7413B	TB7413R	TB7413Y	-
150	TB7820B	TB7820R	TB7820Y	-
200	TB7513B	TB7513R	TB7513Y	-
300	TB7613B	TB7613R	TB7613Y	-
350	TB7713B	TB7713R	TB7713Y	-

#### Ball valve at 45° 1/4 SAE

Cm	Blue	Red	Yellow	€
100	TB7499B	TB7499R	TB7499Y	-
150	TB7822B	TB7822R	TB7822Y	-
200	TB7599B	TB7599R	TB7599Y	-
300	TB7295B	TB7295R	TB7295Y	-
350	TB7919B	TB7919R	TB7919Y	-

#### Ball valve at 90° 1/4 SAE

Cm	Blue	Red	Yellow	€
100	TB7902B	TB7902R	TB7902Y	-
150	TB7824B	TB7824R	TB7824Y	-
200	TB7905B	TB7905R	TB7905Y	-
300	TB7297B	TB7297R	TB7297Y	-
350	TB7921B	TB7921R	TB7921Y	-

#### In-line swivel connections 5/16 SAE

Cm	Blue	Red	Yellow	€
100	TB7402B	TB7402R	TB7402Y	-
150	TB7815B	TB7815R	TB7815Y	-
200	TB7502B	TB7502R	TB7502Y	-
300	TB7602B	TB7602R	TB7602Y	-
350	TB7702B	TB7702R	TB7702Y	-

#### □ In-line swivel connections at 45° 5/16 SAE

Cm	Blue	Red	Yellow	€	
100	TB7496B	TB7496R	TB7496Y	-	
150	TB7817B	TB7817R	TB7817Y	-	
200	TB7596B	TB7596R	TB7596Y	-	
300	TB7292B	TB7292R	TB7292Y	-	
350	TB7916B	TB7916R	TB7916Y	-	

#### In-line swivel connections at 90° 5/16 SAE

Cm	Blue	Red	Yellow	€
100	TB7498B	TB7498R	TB7498Y	-
150	TB7819B	TB7819R	TB7819Y	-
200	TB7598B	TB7598R	TB7598Y	-
300	TB7294B	TB7294R	TB7294Y	-
350	TB7918B	TB7918R	TB7918Y	-



#### Ball valve 5/16 SAE connection

Cm	Blue	Red	Yellow	€
100	TB7414B	TB7414R	TB7414Y	-
150	TB7821B	TB7821R	TB7821Y	-
200	TB7514B	TB7514R	TB7514Y	-
300	TB7614B	TB7614R	TB7614Y	-
350	TB7714B	TB7714R	TB7714Y	-



#### Ball valve at 45° 5/16 SAE

Cm	Blue	Red	Yellow	€
100	TB7901B	TB7901R	TB7901Y	-
150	TB7823B	TB7823R	TB7823Y	-
200	TB7904B	TB7904R	TB7904Y	-
300	TB7296B	TB7296R	TB7296Y	-
350	TB7920B	TB7920R	TB7920Y	-



#### Ball valve at 90° 5/16 SAE

Cm	Blue	Red	Yellow	€
100	TB7903B	TB7903R	TB7903Y	-
150	TB7825B	TB7825R	TB7825Y	-
200	TB7906B	TB7906R	TB7906Y	-
300	TB7298B	TB7298R	TB7298Y	-
350	TB7922B	TB7922R	TB7922Y	-



Equipment for Air Conditioning and Refrigeration Maintenance

## Ball Valves with In-line Swivel Connection

ArtNr.	Male	Female	8
RP1119.R1.*S1	1/4 SAE	1/4 SAE	01
RP1819.R1.*S1	1/4 SAE	3/8 SAE	01
RP1919.R1.*S1	3/8 SAE	3/8 SAE	01
RP1035.R1.*S1	1/2 ACME	1/4 SAE	01
RP1719.R1.*S1	1/4 SAE	5/16 SAE	01
RP1319.R1.*S1	5/16 SAE	1/4 SAE	01
RP1619.R1.*S1	5/16 SAE	5/16 SAE	01



## Ball Valves with In-line Swivel Connection 45°

ArtNr.	Male	Female	8
RP1170.R1.*	1/4 SAE	1/4 SAE	01
RP1270.R1.*	3/8 SAE	1/4 SAE	01
RP1370.R1.*	5/16 SAE	1/4 SAE	01
RP1170.R1.*	1/4 SAE	5/16 SAE	01
RP1670.R1.*	5/16 SAE	5/16 SAE	01

\* ADD TO ART-NR: Y = YELLOW VALVE, B = BLUE VALVE, R = RED VALVE, G = GREEN VALVE, W = WHITE VALVE

#### Ball Valves with In-line Swivel Connection 90°

ArtNr.	Male	Female	6
RP1171.R1.*	1/4 SAE	1/4 SAE	01
RP1371.R1.*	5/16 SAE	1/4 SAE	01
RP1771.R1.*	14 SAE	5/16 SAE	01
RP1671.R1.*	5/16 SAE	5/16 SAE	01

\* ADD TO ART-NR: Y = YELLOW VALVE, B = BLUE VALVE, R = RED VALVE, G = GREEN VALVE, W = WHITE VALVE

### Ball Valves with Male Fitting

ArtNr.	Description	8
RP1631.R1.*S1	1/4 SAE x 1/4 SAE	01
RP1636.R1.*S1	5/16 SAE x 5/16 SAE	01

\* ADD TO ART-NR: Y = YELLOW VALVE, B = BLUE VALVE, R = RED VALVE, G = GREEN VALVE, W = WHITE VALVE

## Spare Parts for Charging Hoses and Ball Valves

ArtNr.	Description	8	€
RG9010.01	Gasket in HNBR for 1/4 - 5/16 SAE - 1/2 ACME	01	-
RG9012.01	Gasket in NEOPRENE for 1/4 - 5/16 SAE - 1/2 ACME	01	-
RG9002.01	Gasket in HNBR for 3/8 SAE	01	-
TBR901.01	Hose Depressor	01	-

#### Shut off

Description	8	€
1/4 M x 1/4 SAE - Black	01	-
1/4 M x 5/16 SAE - Green	01	-
	1/4 M x 1/4 SAE - Black	1/4 M x 1/4 SAE - Black 01









#### 70 L High Vacuum Pumps

Two-stage High Vacuum Pumps with Electrovalve and Vacuum Gauge

- Power supply: 220 v/50 hz.
- Vacuum gauge: ø 80 mm class 1.6.
- 1/4 SAE fittings.
- Accuracy 1.6.

ArtNr.	Capacity (l/min)	Ultimate Vacuum (mbar)	Oil (ml)	Size (mm)	Weight (Kg)	€/each
VP1017.01	70	0,003	250	315x124x240	8,6	-

#### High Vacuum Hose

#### High Vacuum Rubber Hose with 3/8 SAE Female Fitting

- Withstands temperatures from -40°C to + 82°C (-40°F to +180°F).
- Standard working pressure: 51 bar (750 psi).
- Burst pressure: 206 bar (3000 psi).
- Inner diameter: 8.1 mm (0.32 inch).
- Outer diameter: 13.8 mm (0.545 inch).

ArtNr.	Description	8
TB5196Y	150 cm hose	01
TB5197Y	240 cm hose	01





#### Cork Insulation Tape

Suitable for insulating components from condensation (service ports of outdoor units, refrigeration pipes, fittings and joints). It adheres perfectly to all metals, for use on cold or hot pipes. Also suitable for protecting pipes from vibration and noise. Its protective film allows the operator to perfectly shape the tape to the pipe without getting dirty.

- Length: 7,50 mt.
- Stretching: 100%.
- Operating Temperature: -20°C / +90°C.
- Transparent film for clean application.

ArtNr.	€	8
TR1015.01	8	10

#### Condenser Fin Comb and Straightener

This is a circular tool with 6 segments that straighten evaporator and condenser aluminium fins without damaging them. It can be used with fins of the following sizes: 6/8/10/12/14/15.

ArtNr.	€	8
RL1010.01	-	10

#### Universal Valve Core Removal Tool

ArtNr.	¥	€
RL1001.01	01	-

#### Standard Valve Core

£

Art.-Nr. 😵





- Creates a flexible but strong seal on the threaded or flanged AC/R fittings, adhering to internal surfaces and filling all micro-cracks.
- Prevents vibration from loosening nuts, joints, bolts, etc.
- Easy to remove.
- Can be applied on all plastics and metals.
- Temperature range use: -90°C to +200°C (-130°F to +392°F).
- Pressure range use: full vacuum and up to 500 bar/7250 psi.
- Resists refrigerant gases, combustible gases, refrigeration lubricants, fuels, solvents, industrial gases.
- Threaded spout for better sealing.





# Sealant Remover and Surface Cleaner

- Removes sealant residues from surfaces. Ideal for cleaning surfaces before using External and FixQuick.
- Quick cleaning action: works in just a few minutes. Wait two minutes, then clean with a cloth.

ArtNr.	Description	€	8		
TR1013.J.01	200 mL Can	-	24	2376	





- Necessary to lubricate copper pipes during flanging.
- Particularly suitable for lubricating drill bits, tap and die sets, reamers and other tools that cut or incise metal.







Equipment for Air Conditioning and Refrigeration Maintenance







# HO.RE.CA

# Cleaner for Refrigerated Environments

- Completely and quickly removes food residues, grease, encrustations, and mould from the surfaces of refrigerated environments, including those used for food storage (cold storage rooms, refrigerators, freezers, etc.) or from the drains of cold storage rooms.
- Slows down the growth of new contaminants on surfaces.
- Regular use has a preventive effect.
- Any residual product is safe as it is formulated with "Food Grade" raw materials.
- HACCP compliant.
- OEM approved.
- NSF certified.

ArtNr.	Description	€	8	-	
AB1075.K.S1	1 L Spray Bottle	-	06	570	READY TO USE
AB1075.P.01	5 L Tank	-	02	144	DTII
AB1075.D.01	10 L Tank	-	01	48	niu

# Cleaner for Coffee Machines and Electric Kettles

- Highly effective descaling and anti-scale formula.
- Safely removes limescale, residues, and mould from the water tank and coffee machine nozzles.
- Regular use prevents the growth of algae and new encrustations.
- Preserves the taste and aroma of coffee.
- Extends the service life of the machine.
- HACCP compliant.
- NSF certified (A3).

	Description	€	8		1
AB1081.K.S1	1 L Spray Bottle - RTU	-	06	570	МАХ
AB1081.P.01	5 L Tank	-	02	144	
AB1081.D.01	10 L Tank 10 L Tank	-	01	48	



#### Ice Machine Cleaner

- Effectively and safely removes limescale, mould, residues, algae, and encrustations from ice machine components (tray, nozzle, coil and drain).
- Does not freeze at normal working temperatures.
- If used regularly, it prevents the growth of algae and encrustations.
- Requires rinsing; it is recommended to remove the first ice cubes produced.
- Any residual product is safe as it is formulated with "Food Grade" raw materials.
- HACCP compliant.
- NSF certified (A1, A3).

ArtNr.	Description	€	8	•	
AB1076.K.S1	1 L Spray Bottle - RTU	-	06	570	
AB1076.P.01	5 L Tank	-	02	144	
AB1076.D.01	10 L Tank	-	01	48	

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# HO.RE.CA



- Highly effective formula: it quickly melts ice from any surface, especially refrigerator ones.
- Removes ice from condensers and slows down its growth.
- Does not require rinsing.
- Safe: it does not contaminate food.
- HACCP compliant.

ArtNr.	Description	€	8	<b>*</b>	READY TO USE
AB1082.K.S1	1 L Spray Bottle	-	06	570	RTU





# Long-lasting Waterproof Treatment

- Once applied to glass, tiles, and mirrors, it forms a protective thin layer that helps prevent water spots, dirt, and scale build-up.
- Ideal for cleaning shower boxes.
- Leaves no marks or residues.
- Quick and easy to apply.
- Gentle formulation: safe for surfaces.

ArtNr.	Description	€	8	<b>*</b>	READY TO USE
AB1237.K.S1	1 L Spray Bottle	-	-	-	RTU



**NEWS** 2022

# Cleaner for Solar Panels

- Removes even the heaviest and most stubborn dirt such as dust, debris, scale, etc. from solar panels.
- Once rinsed off, it leaves a protective film on the solar panel that slows down the growth of new deposits and protects it from corrosion.
- Restores and maintains the efficiency of solar panels over time.
- Alkaline-based formula.
- Does not damage surfaces; also safe for plastics.
- Safe for solar panels: it does not affect their performances and does not get absorbed.

AB1086.K.S1         1 L Spray Bottle - RTU         -         06         570           AB1086.P.01         5 L Tank         -         02         144           AB1086.D.01         10 L Tank         -         01         48	ArtNr.	Description	€	8	•
	AB1086.K.S1	1 L Spray Bottle - RTU	-	06	570
AB1086.D.01 10 L Tank - 01 48	AB1086.P.01	5 L Tank	-	02	144
	AB1086.D.01	10 L Tank	-	01	48









# HO.RE.CA



- Removes food, paper, mould and soap from slow sink drain.
- Eliminates unpleasant odours from sinks and drains.
- Can be used in all types of drains, both metal and plastic.
- Ideal for regular maintenance.

ArtNr.	Description	€	8	
AB1080.K.01	1 L Bottle	-	06	570







- Clears blocked sinks and drains dissolving all food, paper, hair, mould, and soap residues that an alkaline product could not remove.
- Eliminates unpleasant odours from sinks and drains.
- Can be used in all types of drains, both metal and plastic.
- Does not corrode metals: it contains anticorrosive agents to limit aggression of the chrome-plated components of the drain.

ArtNr.	Description	€	8	•	READY TO USE
AB1079.K.01	1 L Bottle	-	06	570	RTU



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info@errecom.it - errecom.com



ERRECOM SPA Via Industriale, 14 25030 Corzano (BS) Italy +39 030 971 9096



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