Mariel
REFRIGERATION & AIR CONDITIONING

Refrigeration & Air conditioning Catalogue

MARIEL S.r.l., with headquarters in Italy for more than 40 years and with partners in Brazil (Milano Tecnica) and in the United States (Mariel USA), is developing and producing new technologies addressed to the “Cold World”. Mariel S.r.l. thus places itself among the main companies on the National and International market, in the air-conditioning sector and in the civil, industrial and automotive refrigeration sector.

This catalogue and its contents remain the sole property of Mariel S.r.l., and shall not be reproduced or distributed without authorization. Although great care has been exercised in the preparation of this document, Mariel S.r.l., its employees or its distributors cannot accept any liability whatsoever connected with its use. Mariel S.r.l. reserves the right to make any change or improvement without prior notice.

Index

P. 06 REFRIGERANT LIST / INFORMATION ON R422B – SUBSTITUTE R22

P. 08 IRON REFILLABLE CYLINDER – 950 ml

P. 09 IRON REFILLABLE CYLINDERS WITH UV DETECTOR DYE - 900 ml

P. 10 VALVES / ADAPTER

P. 11 DIAGNOSIS AND CHARGE OF AIR-CONDITIONERS

P. 13 DIAGNOSIS AND CHARGE OF DOMESTIC REFRIGERATORS

P. 14 CYLINDERS FOR HC (HYDROCARBONS)

P. 15 IRON REFILLABLE CYLINDERS - 2,100 l

P. 16 REFILLABLE CYLINDERS - 7 l

P. 17 REFILLABLE CYLINDERS - 12,500 l

P. 18 SPECIAL R1234YF

P. 19 LOOSE REFRIGERANT FLUIDS / KG FOR THE CHARGE OF EMPTY CYLINDERS

P. 21 EMPTY REFILLABLE CYLINDERS

P. 22 CO2

P. 24 IDEATRONIC

P. 26 UV DYES / INJECTORS

P. 28 UV LAMPS

P. 30 INNER FLUSHING KITS

P. 31 INNER FLUSHING FLUID

P. 32 SPARE PARTS FOR INNER FLUSHING KITS

Index

P. 34 LUBRICANTS

P. 35 EXTERNAL FLUSHING FLUID

P. 36 OZONE3

P. 38 AIR-CONDITIONERS SANITIZATION: SANET - CLIMA FRESH

P. 41 JUNCTIONS

P. 42 FLEXIBLE HOSES

P. 44 NITROGEN KIT

P. 45 ULTRASONIC LD DIAGNOSTIC TOOL

P. 46 INSTRUMENTS FOR CHECKING LEAKS

P. 48 GAS DETECTOR SPRAY CAN

P. 49 VACUUM PUMPS

P. 50 ELECTRONIC SCALES AND REFRIGERANT RECOVERY UNIT

P. 51 THERMOMETERS AND THERMOSTATS

P. 53 ADHESIVE TAPES AND SEALANT

P. 54 MANIFOLDS / DEPRESSORS AND HOSE GASKETS

P. 55 PUMPAIR

P. 56 ANTIFREEZE FLUID

P. 58 TOOLS AND INSTRUMENTS

P. 63 ACCESS VALVES

P. 64 WELDING LINE

P. 67 WELDING ALLOYS / DISPLAY

The images contained in this catalogue are purely indicative because the products may be subject to change without notice

Refrigerants information

REFRIGERANT	GAS	APPLICATION	LUBRICANT	SUBSTITUTE
● R422B	HFC	Commercial, industrial and domestic refrigeration	MO - AB - POE	R22 - R407C
● R422A	HFC	Commercial, industrial and domestic refrigeration	POE	R22 - R502
● R134a	HFC	Domestic, commercial and automotive refrigeration	POE - PAG	
● R1234yf	HFO	Automotive refrigeration	POE - PAG	
● R404A	HFC	Commercial and automotive refrigeration	POE	
● R407C	HFC	Domestic and industrial air-conditioning	POE	
○ R437A	HFC	Commercial and automotive refrigeration	MO - POE - AB	R12
○ R507	HFC	Commercial and automotive refrigeration	POE	
● R410A	HFC	Domestic and industrial air-conditioning	POE	
○ R600a	HC	Domestic refrigeration	MO - POE	
○ R290	HC	Domestic air-conditioning	MO - POE	

R422B substitute R22

As of 01.01.2010, complying with the EC Legislation 2037/2000, the use of virgin R22 is banned in the European Community, except for its recovery and refilling in the same device or regenerated after the recovery, by following all procedures, including the transportations in proper cylinders (for additional information, please do not hesitate to contact Mariel S.r.l).
Mariel S.r.l. is glad to introduce you the new gas R422B, a long drop-in solution for new and existing A/C systems that are designed for R22, R407C, R417 or R422D, zero ODP. The best solution for the commercial and residential A/C equipment. R422B is compatible with all standard existing R22 and R407C devices, medium/high temperature applications. Low temperatures applications up to 6kg (over this quantity, please consult Mariel's technical staff).
Our new product is perfectly compatible with all lubricants, i.e. MO, AB e POE.

CONVERSATION RECOMMENDATIONS AND PROCEDURES
Change from CFC and HCFC to HFC refrigerants may cause a retraction in the o-rings and elastomers.
Be sure to repair or replace after recovery of the original refrigerant (particularly for big applications).

1) Record system pre-conversion data:
Prior to converting, the system should be monitored and all system and component operating conditions recorded for future reference (See form).

2) Recovery of the existing gas
The total quantity of the refrigerant must be recovered from the systems in accordance with all guidelines.
* Recording the weight of the gas will assist you in the determining the amount of "R422B" necessary for the conversion.

3) Perform oil analysis
Check system oil for acidity, water and solids (metal shavings). If detected, perform a complete system oil change, using the OEM specified type and amount of oil.

4) Leak check system
Pressure test system with dry nitrogen. DO NOT exceed the equipment's design pressure. "R422B" can be detected with any standard form of leak detection designed to detect HFC refrigerants.

5) Evacuate system
To remove non-condensable and moisture in the system, a minimum 500 micron vacuum must be achieved.

6) Charge system
Remove LIQUID ONLY from R422B cylinder. When initially charging system, R422B can be added directly into the receiver tank or high pressure side of the system with compressor off. Charge ratios for R422B may vary depending on system design and application. The initial charge of R422B should be 95% of the original R22 charge.

7) Run system
Check pressures, subcooling and superheat temperatures. Use R422B chart on reverse side. If additional R422B needs to be added, do so in 5% increments and DO NOT exceed 115% of the original charge of R22. If system performance is inadequate, call Mariel S.r.l. for support.
Depending on some systems, some decreases may be possible (it could be for all new mixtures in replacement of R22).

8) Properly label system
Avoiding mixing refrigerants i.e. R422B with gas R22. Please apply the right label!

9) Post-conversion leak check
After operation of system begins, do a thorough system leak check.

10) Record system post-conversion data
Monitor and evaluate system performance and record data. This information can be compared to your pre-conversion data for a full conversion evaluation and can be used if further technical support is required.

CONCLUSIONS

a) R422B is compatible with all lubricants i.e. MO, AB e POE so, it is not necessary to replace them.
b) It can be added to all devices previously charged with R417, R422D.
c) It is perfectly compatible with all low, medium and high temperature applications.

For additional information about our new product R422B please do not hesitate to contact Mariel S.r.l.

Iron refillable cylinders - 950 ml

T-PED / EN13322-1
APPROVALS

CODE	REFRIGERANT	CAPACITY	PACKAGING	VALVES
TR410/1FE	R410A	800 g	6	MA22 / MA25
TR407/1FE	R407C	850 g	6	MA21 / MA24
TR422B/1FE	R422B (Substitute R22)	850 g	6	MA21 / MA24
TR404/1FE	R404A	790 g	6	MA21 / MA24
TR134/1FE	R134a	900 g	6	MA21 / MA24
TR437/1FE	R437A (Substitute R12)	900 g	6	MA21 / MA24

Iron refillable cylinders with UV detector dye - 950 ml

T-PED / EN13322-1
APPROVALS

CODE	REFRIGERANT	CAPACITY	PACKAGING	VALVES
TR410/1CT-FE	R410A	800 g	6	MA22 / MA25
TR407/1CT-FE	R407C	850 g	6	MA21 / MA24
TR422B/1CT-FE	R422B (Substitute R22)	850 g	6	MA21 / MA24
TR134/1CT-FE	R134a	900 g	6	MA21 / MA24

MA21

Straight ball valve
A - 1/4” F
B - 1/4” M

MA22

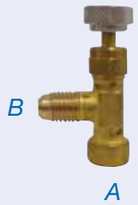
Straight ball valve
A - 5/16” F
B - 1/4” M

49RUB

Valve
A - 7/16” F
B - 1/4” M

MA23

Angle ball valve
A - 7/16” F
B - 1/4” M

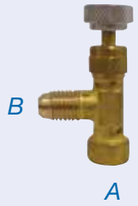


MA24

Angle ball valve
A - 1/4” F
B - 1/4” M

MA25

Angle ball valve
A - 5/16” F
B - 1/4” M



MRB5/16

Adapter
A - 1/4” F
B - 5/16” M

Diagnosis and charge cylinders for air-conditioners

T-PED / EN13322-1
APPROVALS

Cylinder with manifold

CODE	REFRIGERANT	CAPACITY	PACKAGING
TR410/1M-FE	R410A	800 g	6
TR407/1M-FE	R407C	850 g	6
TR422B/1M-FE	R422B (Substitute R22)	850 g	6
TR404/1M-FE	R404A	790 g	6

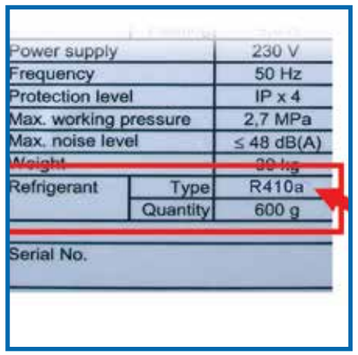
Cylinder without manifold (recharge cylinder)

CODE	REFRIGERANT	CAPACITY	PACKAGING
TR410/1MR-FE	R410A	800 g	6
TR407/1MR-FE	R407C	850 g	6
TR422B/1MR-FE	R422B (Substitute R22)	850 g	6
TR404/1MR-FE	R404A	790 g	6

Manifolds

MR4101 (for R410A)	MR4071 (for R407C)	MR422B1 (for R422B)	MR4041 (for R404A)

Instruction



Power supply		230 V
Frequency		50 Hz
Protection level		IP x 4
Max. working pressure		2,7 MPa
Max. noise level		≤ 48 dB(A)
Weight		30 kg
Refrigerant	Type	R410a
	Quantity	600 g
Serial No.		

1. Check the air-conditioner label

2. Connect the cylinder to the system

3. Charge the system

Follow the operations here below:

GREEN SECTOR

The gas inside the system is missing.

BLUE SECTOR

Correct quantity of gas inside the system.

Make a deepened diagnosis:

YELLOW SECTOR

The system is overfilled with gas. Recover the excess quantity.

RED SECTOR

The system has some problems indipendent of the gas charge.

Diagnosis and charge cylinders for domestic refrigerators

T-PED / EN13322-1 APPROVALS

Easy and immediate reading of pressure

CODE	REFRIGERANT	CAPACITY	PACKAGING	MANIFOLD
TR134/1M-FE	R134a	900 g	6	
TR134/1MR-FE	R134a	900 g	6	MR13412

1. Identify the proper charge

2. Connect the cylinder to the system

3. Check the system

4. Charge the system

Cylinders for HC (Hydrocarbons)

CODE	REFRIGERANT	CAPACITY	PACKAGING	VALVES
TR600BB/210	R600a	210 g	12	49RUB / MA23
TR600BB	R600a	420 g	12	49RUB / MA23
TR600BB5P	R600a	5,000 kg		
TR600BB25P	R600a	25,000 kg		
TR290/1FE	R290	370 g	12	49RUB / MA23
TR290BB5P	R290	5,000 kg		
TR290BB25P	R290	25,000 kg		

Page 47: flammable gas leak detector

Iron refillable cylinders – 2,100 l

T-PED / EN13322-1 APPROVALS

CODE	REFRIGERANT	CAPACITY	PACKAGING	VALVES
TR410/2FE	R410A	1,900 kg	4	MA22 / MA25
TR407/2FE	R407C	2,000 kg	4	MA21 / MA24
TR422B/2FE	R422B (Substitute R22)	2,000 kg	4	MA21 / MA24
TR404/2FE	R404A	1,700 kg	4	MA21 / MA24
TR134/2FE	R134a	2,000 kg	4	MA21 / MA24

Refillable cylinders – 7,000 l

With 1/4” SAE M valve

T-PED / EN13322-1 APPROVALS

CODE	REFRIGERANT	CAPACITY	PRESSURE
TR134BBR5	R134a	5,000 kg	36 Bar
TR134BBR6	R134a	7,000 kg	36 Bar
TR404BBR6	R404A	5,000 kg	36 Bar
TR407BBR5	R407C	5,000 kg	36 Bar
TR407BBR6	R407C	6,000 kg	36 Bar
TR410BBR5	R410A	5,000 kg	46 Bar
TR422BBR5	R422B (Substitute R22)	5,000 kg	36 Bar
TR437BBR5	R437 (Substitute R12)	5,000 kg	36 Bar

Refillable cylinders - 12,500 l

With 1/4” SAE M. valve

R744
CO2 for refrigeration applications
4 and 10 kg available

Single valve (with dip tube)

CODE	REFRIGERANT	CAPACITY	PRESSURE
TR134BB12P	R134a	12,000 kg	36 Bar
TR134BB10P	R134a	10,000 kg	36 Bar
TR404BBP	R404A	10,200 kg	36 Bar
TR404BB9,8P	R404A	9,800 kg	36 Bar
TR407BB11,3P	R407C	11,300 kg	36 Bar
TR407BB10P	R407C	10,000 kg	36 Bar
TR410BBP	R410A	10,000 kg	46 Bar
TR422BB11,3P	R422B (Substitute R22)	11,300 kg	36 Bar
TR422BB10P	R422B (Substitute R22)	10,000 kg	36 Bar
TR422AB10P	for low temperature (Substitute R22 e R502)	10,000 kg	36 Bar
TR437BBP	R437A (Substitute R12)	12,000 kg	36 Bar
TR507BB10P	R507	10,000 kg	36 Bar

Double valve (without dip tube)

CODE	REFRIGERANT	CAPACITY	PRESSURE
TR407BB10PD	R407C	10,000 kg	36 Bar
TR407BB11,3PD	R407C	11,300 kg	36 Bar
TR410BBPD	R410A	10,000 kg	46 Bar
TR422BB10PD	R422B (Substitute R22)	10,000 kg	36 Bar

Special R1234yf

“R1234yf” fluid is part of a new class of refrigerants proposed as a replacement for chlorofluorocarbons and hydrofluorocarbons in automotive air conditioners. R1234yf has a global warming potential (GWP) rating of 4. 335 times less than that of R-134a (GWP = 1430) and an atmospheric lifetime of about 400 times shorter. This refrigerant has been developed to meet the 2006/40/EC European directive which requires that all new cars for sale in Europe use a refrigerant fluid with a GWP below 150.

TR1234BBR5

Refillable cylinder R1234yf kg 5
Connection 1/2” ACME left

Cylinder exclusively in loan for use / commodatum

Loose refrigerant fluids / kg for the charge of empty cylinders

CODE	REFRIGERANT	CAPACITY
TR134	R134a	loose / kg
TR404	R404A	loose / kg
TR407	R407C	loose / kg
TR410	R410A	loose / kg
TR422B	R422B (Substitute R22)	loose / kg
TR422A	R422A (Substitute R22 - R502 for low temperature)	loose / kg
TR437	R437A (Substitute R12)	loose / kg
TR507	R507	loose / kg
TR600	R600a	loose / kg
TR290	R290	loose / kg

If the refrigerant you are looking for is not on the list, please contact us.

Services

- **Approved T-PED - CE - EN13322-1 refillable cylinders**
- **Cylinders retesting**
- **Collection of empty cylinders**
- **Quick refilling operation**
- **Cylinders diagnosis**
- **Barcode management for cylinders from 40 to 900 kg**

Valves and Adapters

1

2

3

4

5

PICTURE	CODE	VALVE / ADAPTER
1	MA21	1/4” F x 1/4” M
2	MA22	5/16” F x 1/4” M
3	MA1/4	1/4” M
4	MA5/16	5/16” M
5	MRB5/16	1/4” F x 5/16” M

Empty refillable cylinders

CODE	REFRIGERANT	CAPACITY	PRESSURE	VALVE
TRNR	all (NO R410A)	12,50 l	36 Bar	single
TRNR7	all (NO R410A)	7,00 l	36 Bar	single
TRN/410	R410A	12,50 l	46 Bar	single
TRN/410.2	R410A	12,50 l	46 Bar	double
TRN/4105	R410A	7,00 l	46 Bar	single
TRB40KV	R410A	40,00 l	49 Bar	double
TRB60KV	R600a / R290	60,00 l	30 Bar	double

CO_2 - E290 Food gases

The Carbon dioxide (CO_2) is an uncoloured and non-smelling gas, coming from natural sources. **CO_2 is widely used as refrigerant in food industry. Its versatility makes it suitable for use in many civil and industrial applications**: water gasification, aquarium use (to acidify water or to facilitate the growth of aquatic plants), hydroponic plant growing greenhouse, compressed air guns (ex. paintball sport), inertization of combustible masses (fire extinguisher)

484400

Disposable CO2 cylinder for water/ beer gasification
E290 600 g

Packaging of 6 pcs

Certified iron cylinder, it is compatible with all the major soda makers available on the market.

4844004 4 kg
4 kg Food grade CO2 refillable cylinder
FULL gas cylinder

4844010 10 kg
10 kg Food grade CO2 refillable cylinder
FULL gas cylinder

TRNRC/4
4 kg Food grade CO2 refillable cylinder
EMPTY gas cylinder

TRNRC/10
10 kg Food grade CO2 refillable cylinder
EMPTY gas cylinder

TRCO2
Loose Food grade CO2 / kg to refill the empty cylinders

Certified and refillable iron cylinder provided with a standard fitting valve, for an easy connection to all regulators

MREG16

Pressure reducer for disposable cylinders with vertical adjusting knob. Adaptor for refillable bottles available on request

USE: pressure reducer particularly suitable for water dispensers with outlet pressure max.5,5 bar - 11.000 nl/h and for small beer dispenser with max outlet pressure 2,5 bar- 3.000 nl/h
Technical data: P1 Inlet pressure max 160 bar K pressure reducer class 0 - P2 outlet pressure up to 2,5 bar K pressure reducer class 1 - P2 outlet pressure up to 5,5 bar
BOTTOM ENTRY
VERTICAL ADJUSTING KNOB
GAUGES Ø 40 mm

MREG20

Big cylinders single pressure reducer for beverage dispensing equipment. Set up for considerable gas flows with no frosting risks

USE: pressure reducer particularly suitable for water dispensers.
Technical data: P1 Inlet Pressure max 200 bar K pressure reducer class 1 - P2 outlet pressure 3 bar K pressure reducer class 2 - P2 outlet pressure 4,8 bar K pressure reducer class 2
REAR ENTRY
FRONT ADJUSTING KNOB
GAUGES Ø 40 mm

IDEATRONIC

The **most compact digital device** for diagnosis, vacuum and charge

Universal for **all refrigerant fluids**

PATENTED

ALL IN ONE

HOW IT WORKS

Pressure up to 40 bar
Large screen display
Decimal digital vacuum gauge

CHARGE BY PRESSURE OR BY WEIGHT

With a **sole equipment**, in the palm of your hand, **diagnosis, vacuum and charge** of split air-conditioners, refrigerators and commercial refrigeration systems, **compatible with all refrigerants** and with gram accuracy.

MINIMAL AMOUNT OF SPACE
EASY TO USE
LIGHTWEIGHT TO CARRY: ONLY 1.1 KG

- **Charge with gram accuracy**
- **Weight of only 1.1 kg**
- **Useable with 1, 2 kg cylinders and 5, 10 e 40 kg cylinders**
- **Simplified system diagnosis**
- **Compatible with any vacuum pump**
- **Compatible with any recovery unit**
- **Environmentally friendly**
- **Universal for all refrigerant fluids.**

Video available

2 SOLUTIONS FOR ALL CUSTOMER NEEDS

IDEAT
Complete kit with case

IDEAT/V
Complete kit with vacuum pump and case

IT CAN ALSO BE USED WITH 5, 12 AND 40 KG CYLINDERS

Complete with reducers and adapters
to work with all refrigerants

5 -12 spray applications of UV leak detection dye

PL702

Nozzle with 1/4” SAE F connection
Reusable

MA22

for R410A

70432

Spray can containing 5 applications of UV leak detection dye
Approved SAE J2297 – Solvent free

Packaging of 12 pcs

70433

Spray can containing 12 applications of UV leak detection dye
Approved SAE J2297 – Solvent free

Packaging of 12 pcs

UV dyes / Injectors

70373

Single application of universal UV dye
Practical single dose plastic bottle
7,5 ml

Packaging of 12 pcs

70383

UV dye compatible with all refrigerants
Practical container with dispenser
32 applications – 237 ml

Packaging of 12 pcs

70383HD

UV dye HD (high definition) compatible with all refrigerants
Practical container with dispenser
32 applications – 237 ml

Packaging of 12 pcs

70384HD

UV dye HD (high definition) compatible with all refrigerants
Practical container with dispenser
64 applications – 465 ml

Packaging of 4 pcs

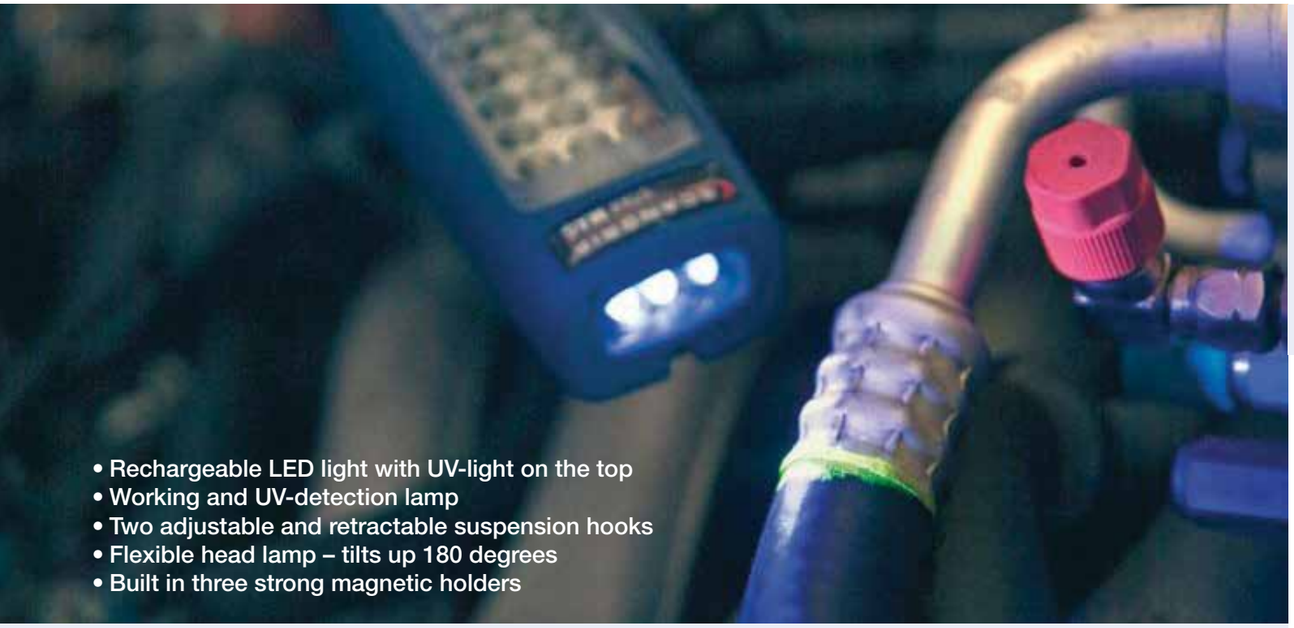
M12730C
M120026C

1/4”F injector for the plug of oil and/ or UV dye in full A/C and refrigeration systems

M12730C: 7,5 ml > 15 ml

M120026C: 7,5 ml > 60 ml

Recheargeable LED lamp 2 in 1

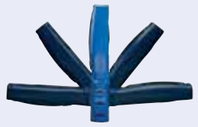


- Rechargeable LED light with UV-light on the top
- Working and UV-detection lamp
- Two adjustable and retractable suspension hooks
- Flexible head lamp – tilts up 180 degrees
- Built in three strong magnetic holders

70437

UV-Plus is an ultra-resistant rechargeable LED inspection lamp, it is provided with **21 white light LEDs and 5 UV-blue LEDs**, used to detect refrigerant leaks in air conditioning and refrigeration systems.
The flexible headlamp allows rotation of 180° and lights up any working area. Its strong and ergonomic structure is provided with 3 strong built-in magnetic holders and 2 retractable suspension hooks that allow to place the lamp anywhere you want.
Cordless – no cable to limit work efficiency – and wide autonomy, makes this Made in Europe working lamp, extremely appreciated by the operators.

AUTONOMY:
Up to 4 consecutive hours white light output
Up to 15 consecutive hours UV-blue light output
Up to 50.000 hours of LED-life time



UV lamps

70439P

2 in 1: UV lamp on one side, thermometer with laser pointer on the other
4 Leds lamp for any type of UV Dye
C and F degrees with easy-to-read display
Goggles and batteries included

ML59C

Leak detector UV lamp that permits to find all leaks in the refrigeration, air-conditioning and hydraulic systems
- Immediate light
- Luminous and compact
- Modular design
- 1 high intensity Led
- Body in rubber
- Case, goggles and 4 batteries included

70439

2 in 1: UV lamp on one side, high intensity light on the other
4 Leds lamp for any type of UV Dye
High intensity long reach light to check surrounding area
Batteries included

70438

High-intensity UV pen lamp. Perfect to find all leaks of UV dye
Goggles and batteries included

Portable kit for the inner flushing of A/C and refrigeration systems

K747

K747 is a practical, flexible and economic equipment for the inner flushing of domestic, commercial and automotive air-conditioning systems. Calibrated at a pressure of 10 Bar, it has been projected to thoroughly remove all kinds of impurities and oil residuals which are spread inside the system. The lightweight also allows its use in difficult-to-reach areas.

1/4” F Rilsan hoses 5 m

Tank capacity: 5 l

K747PLUS

K747 Plus is a compact, light and flexible equipment studied for the non-stop inner flushing of A/C and refrigeration systems. The electronic pump lets the flushing liquid run with a constant pressure, unclogging and flushing any system. Due to its functionality, it can be used in any application.
Measures: cm 29 x 29 x 48 h
Weight: only 12 kg

AUTOMATIC KIT

MKL58082C

OPTIONAL KIT PAGE 33

Inner flushing fluid

Nevada flush K5100 is a flushing fluid studied to thoroughly flush out any impurity and oil / metal residual, which are spread inside pipes. Also ideal to descale very clogged condensers.
Available in tanks of 1 - 5 - 10 - 25 l

- Extremely efficient
- Fast evaporating
- Compatible with all refrigerants and oils
- Pleasant perfume
- Does not damage any rubber and metal component

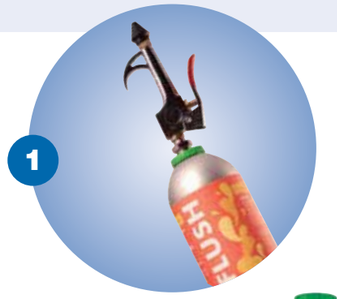
TRFG1
1 l Tank

Packaging of 4 pcs (TRFG1/4) or 10 pcs (TRFG1/10)

TRFG5
5 l Tank

TRFG10
10 l Tank

TRFG25
25 l Tank



K5100 IN PRESSURIZED CYLINDERS

TRFGBB
500 g cylinder

Packaging of 12 pcs

Use with

1

SCFGLN2
Flushing nozzle

2

49RUB
Valve 1/4” M

SCFGLN
Flushing nozzle

MTG60
1/4” F x 1/4” F hose - 60 cm

TRFGBB5
5 l Cylinder

TRFGBB10
10 l Cylinder

Use with

SCFGLN
Flushing nozzle

MTG60
1/4” F x 1/4” F hose - 60 cm

Spare parts for inner flushing kits

484300

Nitrogen cylinder
100 l - 110 Bar

Packaging of 6 pcs

49REG

Nitrogen pressure regulator to 10 Bar with gauge
for nitrogen cylinder code 484300

MFC1/4

1/4” F x 1/4” F capillary tube

SCFGLN

Flushing nozzle

MTG60

1/4”F x 1/4” F hose – 60 cm

SC241497

Kit complete with cylinder, 60 cm hose and flushing nozzle

MKL58082C

Complete kit of adapters for the quick connection to system hoses
1/4” M connection
Protective plastic case

Lubricants

SCE55

ESTER Oil viscosity 100 – 1 l
For A/C compressor
Metal can

Packaging of 4 (SCE55/4) or 10 pcs (SCE55/10)

(Also available in tanks of 5 and 10 l)

SCE320

ESTER Oil viscosity 32 – 1 l
For A/C compressor
Metal can

Packaging of 4 (SCE320/4) or 10 pcs (SCE320/10)

SCE68

ESTER Oil viscosity 68 – 1 l
For vacuum pumps
Metal can

Packaging of 4 (SCE68/4) or 10 pcs (SCE68/10)

SCE68/250

ESTER Oil viscosity 68 – 250 ml
For vacuum pumps
Metal can

Packaging of 12 pcs

SCE40

O-Ring spray lubricant
It lubricates the o-ring on the hoses, before the application of the pipe unions

Packaging of 12 pcs

For different kinds of oil and viscosity, please ask our sales department.

External flushing fluid for condensing batteries and evaporators

Nevada CLEAN-L is a liquid descaler with a detergent action, specific for evaporators and condensers radiant masses of refrigeration and air-conditioning systems. It removes calcareous incrustations and bacterial slime, restoring the original brightness of the product. It does not damage neither the aluminium, nor its alloys; moreover, it does not contain any fuming sulphuric acid. Safer use for maintenance operators.
EVAPORATORS • CONDENSERS • READY-TO-USE • DILUTED

EFFECTIVE

TRCLEAN1
1 l spray bottle

Packaging of 4 pcs (TRCLEAN1/4)
or 10 pcs (TRCLEAN1/10)

TRCLEAN5
5 l tank

TRCLEAN10
10 l tank

MFLAC/P

Manual precompression pump
- Ergonomic “easy grip” handle
- Chemical resistant for extended use with aggressive liquids as: hydrocarbons, fuels, oils, solvents, diluted hydrochloric acid, diluted sulphuric acid, ozone, sea water, saline solution
- VITON seals
- Adjustable nozzle
- Capacity: 2 l
- Average working pressure: 2 bar
- Angle: 60°
- Regulations: cone or jet stream
- Weight: 0,40 kg

In accordance with 2066/42/CE regulation

NEW

Ozone3
Cold plasma ozone generator

- Direct oxidation and sanitization of all surfaces
- Short action time
- No toxic by-products and harmful residuals
- Complete disappearing of toxic and aggressive agents

APPLICATIONS:
- Automotive (cars, buses, caravans, campers etc.)
- Kitchens
- Hotel & Motel rooms
- Hospitals, Medical Studies, Laboratories of analysis
- Dental Studies and Laboratories
- Beauty centers
- Public places
- General pet odors
- Cigarettes and tobacco odors
- It removes bacteria that cause unpleasant smells

PATHOGENIC AGENT	MINUTES
Streptococcus Lactis	0’14”
Streptococcus Aureus	0’10”
Sarcina Lutea	0’44”
Escherichia coli	1’00”
Staphilococcus	10’00”
Pyogenes Aureus	10’00”
Vibrio Cholerae	20’00”
Salmonella Typi	3’00”
Paramecium	5’30”
Saccharomyces elipsoideus	0’22”
Saccharomices sp.	0’29”
Lievito per pane	0’14”
Morbo del Legionario	19’00”
Microbacterio Paratubercolosis	20’00”
Virus Ebola	20’00”
Mosaico del tabacco	12’15”

9064M
Ozone3 100 mg / h

Technical data
- Gas source: air
- Cooling system: air
- Voltage: 12V/230V
- Power: 18 W
- Working temperature: +5°C +40°C
- Storage temperature: -5°C +60°C
- Dimensions: 160x240x90mm
- Weight: 1 kg

Ozone is a MEDICAL DEVICE

9065M
Ozone3 300 mg / h

9066M
Ozone3 600 mg / h

For chillers and big areas, it is provided with timer

SANET

Sanitizer against molds & smells

SANET is an easy-to-use revolutionary product, studied to autonomously make the sanitization of both air-conditioners and vehicles.
It eliminates all smells caused by the bacterial flora that are usually spread inside the pipelines. Thanks to the spray expulsion, it leaves a pleasant perfume proposed in five different scents: fresh, vanilla, blue ocean, papaya and spearmint.

	FRESH 150 ml	VANILLA 150 ml	BLUE OCEAN 150 ml	PAPAYA 150 ml	SPEARMINT 150 ml
BLISTER PACK Packaging of 20 pcs	SP00150FBS	SP00150VBS	SP00150BBS	SP00150PBS	SP00150SBS
INDUSTRIAL PACK Packaging of 24 pcs	SP00150FSN	SP00150VSN	SP00150BSN	SP00150PSN	SP00150SSN

E0007D
Display 60 pcs – ITA
H. 155 cm x L. 52 cm x P. 36 cm

E0007C
Display 60 pcs - ENG + ESP
H. 155 cm x L. 52 cm x P. 36 cm

E0009
Counter display 20 pcs
H. 60 cm x L. 35 cm x P. 26 cm

SP00034

Sanet 400 ml
Perfume: fresh

Packaging of 12 pcs

SP00034S

Sanet 400 ml
Perfume: spearmint

Packaging of 12 pcs

TRCANULA

Optional probe
60 cm

CLIMA FRESH

Air-fresheners to insert in your home and office air-conditioner

SPCLIMA/L
LOVELY HOME
Red

SPCLIMA/W
WELLNESS
Purple

SPCLIMA/V
SWEET VANILLA
Yellow

SPCLIMA/A
GREEN APPLE
Green

E0006
Carton counter display
40 pcs
H. 35 cm x L. 35 cm x P. 24 cm

E0008
Metal Counter display
80 pcs
H. 48 cm x L. 17 cm x P. 16 cm

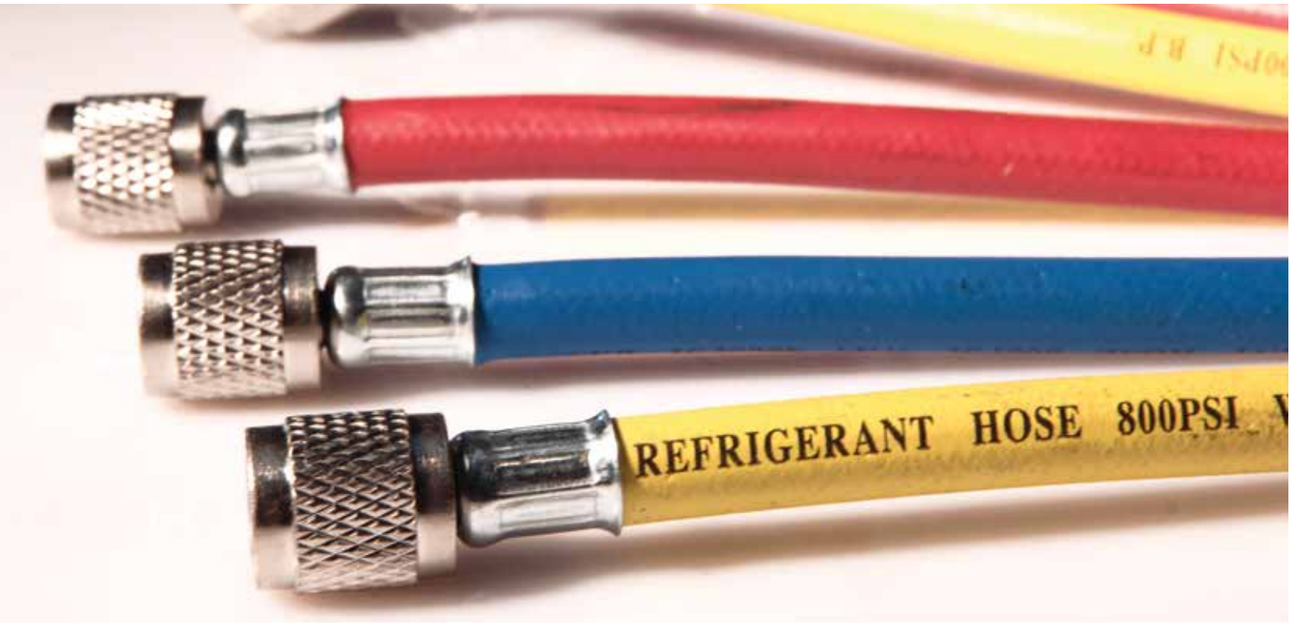
Junctions

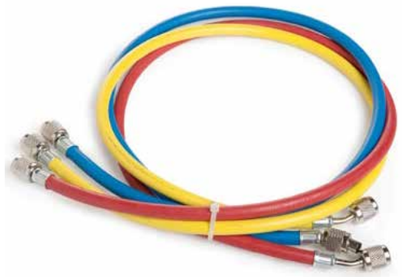
CODE	DESCRIPTION	JUNCTION	PACKAGING
RACU1/4C	Reversal junction	1/4” M x 1/4” F	2 pz
RACU3/8C	Reversal junction	3/8” M x 3/8” F	2 pz
RACU1/2C	Reversal junction	1/2” M x1/2” F	2 pz
RACU5/8C	Reversal junction	5/8” M x 5/8” F	2 pz

CODE	DESCRIPTION	JUNCTION
C7110/2DC	Double union with nut	1/4” M
C7110/3DC	Double union with nut	3/8” M
C7110/4DC	Double union with nut	1/2” M
C7110/5DC	Double union with nut	5/8” M
C7110/6DC	Double union with nut	3/4” M

Flexible hoses

MADE IN ITALY





MTRBG1/4-45

1 pack contains 3 tubes 1/4 F 1000 mm
45° connection with depressor

Accessories

MDT10

Depressor for hoses

1 pack contains 10 pcs

Rubber gasket for hoses

MGT1/4
(1/4")
MGT3/8
(3/8")

1 pack contains 10 pcs

180° Connection with tap and depressor	*180° Connection with depressor*	*180° and 45° Connection with depressor*
1/4" FF Flexible hose	**1/4 '' FF Flexible hose**	**1/4" FF Flexible hose**
1500 mm	**1500 mm**	**1500 mm**
MTR1/4-15	MTR1/4-15L	MTR1/4-45
MTB1/4-15	MTB1/4-15L	MTB1/4-45
MTG1/4-15	MTG1/4-15 L	MTG1/4-45
1800 mm	**1800 mm**	**1800 mm**
MTR1/4	MTR1/4-18L	MTR1/4-4518
MTB1/4	MTB1/4-18L	MTB1/4-4518
MTG1/4	MTG1/4-18L	MTG1/4-4518
3000 mm	**3000 mm**	**3000 mm**
MTR1/4-30	MTR1/4-30L	MTR1/4-4530
MTB1/4-30	MTB1/4-30L	MTB1/4-4530
MTG1/4-30	MTG1/4-30L	MTG1/4-4530
5/16" FF Flexible hose	**5/16" FF Flexible hose**	**5/16" FF Flexible hose**
1500 mm	**1500 mm**	**1500 mm**
MTR5/16	MTR5/16-15L	MTR5/16-45
MTB5/16	MTB5/16-15L	MTB5/16-45
MTG5/16	MTG5/16-15L	MTG5/16-45

Possibility to produce special measures; please ask for information

Nitrogen kit with balancing output pressure

In accordance with N°1516/2007 regulation

MKAZOTO/B

Ideal for:
- Testing HVAC & A/C systems for leaks
- Testing evaporators and condensers for leaks
- HVAC & A/C systems flushing
- Fluxing during soldering
- Testing the switch calibration
- Testing the gauges calibration

The kit includes:
- Disposable nitrogen cylinder 100 l - 110 Bar, code 484300
- Nitrogen pressure regulator with pressure balancer: Cert. 825ARS-40
- Inlet pressure: 220 Bar
- Outlet pressure: 50 Bar
- Connection: 1/4” SAE M
- External security valve
- Ø 80 mm nitrogen gauge, class 1.0 with defined sectors, positioning indicator and calibration screw
- 5/16” SAE F x 1/4” SAE M adapter
- M 10x1 cylinder adapter

484300

Nitrogen cylinder
100 l - 110 Bar

4843005

Light alloy cylinder for Nitrogen
Capacity: 5 l

MR145

Manifold

M212

Gas detector spray can
400 ml

“Ultrasonic LD” Diagnostic Tool

9062

Ultrasonic LD diagnostic tool

Ideal for detecting:
Refrigerant fluid leaks
Pneumatic and Hydraulic leaks
Flammable gases
Vacuum leaks
Electrical discharge
Leaks from not properly tightened fittings
Gear and bearing wear
Exhaust leaks
Cabin seal and gasket integrity

The kit includes:
- Diagnostic tool
- Headphones
- Contact probe
- Ultrasound emitter
- Batteries

Ultrasonic LD is a new generation and **ULTRA-SENSITIVE** electronic tool, it can actually pick up the sound of a blinking eye! This super-sensitive capability makes it one of the most effective early warning systems to detect defects and malfunctions before they result in major breakdowns.
The **extremely precision** allows to isolate a suspect signature sound from other background noises and to detect its exact location.
It is an **ideal diagnostic tool that radically reduces equipment downtime and maintenance costs**.

CONVERTS AND AMPLIFIES ULTRASONIC SOUND INTO AUDIBLE SOUND.
- Precision-engineered air and contact probes optimize receiver versatility
- Factory calibrated for optimal performance; does not require recalibration
- Rugged carrying case with contoured foam padding
- Receiver and emitter powered by 9-volt alkaline standard batteries (included)

Contact probe

Separated emitter

Instruments for checking leaks

MCX-P1

Electronic leak detector, 7 levels sensibility adjustable. Battery test and 3 sensing tips included
- Accuracy: 3 g year
- Average time sensible element: 20 h
- Immediate reply
- Warming up time: 2 sec

MCX-G2

Electronic leak detector, 7 levels sensibility adjustable. 2 sensing tips included
- Accuracy: 3 g year
- Average time sensible element: 20 h
- Immediate reply
- Warming up time: 2 sec

MSTC

Sensing tip spare part for MCX-P1 e MCX-G2 kits
CFC - HFC - HCFC

484300

Nitrogen cylinder
100 l - 110 Bar

Packaging of 6 pcs

HP

LP

Quick coupler fitted with 1/4” SAE M connection

QC-HMC
Red

QC-LMC
Blue

4843003 *Capacity: 3 l*

4843005 *Capacity: 5 l*

Light alloy cylinder for Nitrogen
- Body: Brushed
- Ogive: Black Ral 9005
- Valve: For nitrogen with handwheel UNI 4409 outlet
- Handle: As black tulip for the protection of the valve
- Certificate: according to (T-PED) directive
- Test pressure: 300 Bar

TRAZOTO

Loose Nitrogen / l
to refill the empty cylinders

MREG50B

50 Bar Nitrogen pressure regulator with safety valve
Plastic case included
Pressure regulator with balancing output pressure
Inlet pressure: 220 Bar
Outlet pressure: 50 Bar

GPL

MCX-320

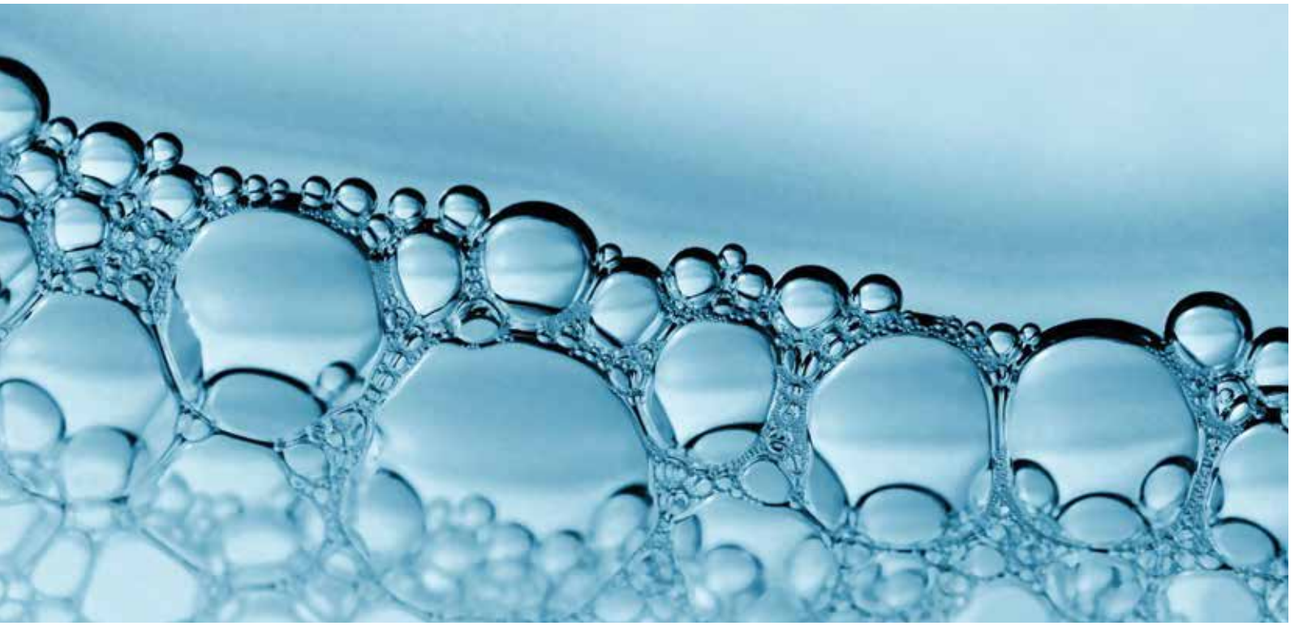
Combustible gas electronic leak detector
Low sensitivity mode to allow a quick and easy location of large combustible gas leaks

TECHNICAL DATA

Dimensions	19 cm x 5,7 cm x 3,8 cm
Weight	190 g
Batteries	2 x 1.5V ‘AA’ alkaline batteries (3 VDC)
Sensibility	Less than 50 ppm (Propane, Iso-Butane, Methane)
Sensor lifetime	> 1 year normal use
Calibration	Automatic

- GPL
- PROPANE
- ISOBUTANE
- ETHYLENE
- HYDROGEN
- METHYL ETHER
- VINYL CHLORIDE
- METHYL CHLORIDE
- HYDROGEN SULFIDE
- ACETONE
- METHANOL
- AMMONIA
- GASOLINE
- CHLORINE
- HELIUM

Gas detector spray can



M212

Gas detector spray can
400 ml

Packaging of 12 pcs

Specially formulated **Bubble Detector** *to check the hermeticity of all gas systems and the detection of any gaseous leaks.*
The innovative product composition will not cause corrosion or deterioration of copper, brass and stainless steel.

In accordance with
DIN EN 14291 regulation

Vacuum pumps

MPD113

Double stage vacuum pump
128 L / min with vacuum gauge and electronic valve

FREQUENCY	SWEPT VOLUME (l / min)	ULTIMATE VACUUM		POWER	CONNECTIONS	OIL QUANTITY	DIMENSIONS	WEIGHT
		PA	MBAR					
50 Hz	4.5 CFM 128 l / min	5	0,05	1/3 HP	1/4" - 3/8"	250 ml	322x124x324 mm	8,9 kg

VE-260

Double stage vacuum pump
170 L / min with vacuum gauge and electronic valve

FREQUENCY	SWEPT VOLUME (l / min)	ULTIMATE VACUUM		POWER	CONNECTIONS	OIL QUANTITY	DIMENSIONS	WEIGHT
		PA	MBAR					
50 Hz	6 CFM 170 l/min	$3x10^{-1}$	0,003	3/4 HP	1/4" - 3/8"	600 ml	395x145x260 mm	16,5 kg

MPDRP2

MADE IN **ITALY**

Double stage vacuum pump
45 l / min

FREQUENCY	SWEPT VOLUME (m^3 / h)	ULTIMATE VACUUM		POWER	CONNECTIONS	OIL QUANTITY	DIMENSIONS	WEIGHT
		PA	MBAR					
50 Hz	2 m^3/h	5	0,05	0,12 Kw	1/4" SAE	150 ml	247x90x210 mm	5 kg

Digital scales and refrigerant recovery unit

BM500C

Portable electronic scale
Technical data:
- Max capacity: 5 kg
- Accuracy: 1 g
- Automatic ON / OFF
- Dimensions: 2.5 x 17.8 x 4.5 cm
- Batteries included

BM80C

Portable electronic scale with plastic case
Technical data:
- Max capacity: 100 kg
- Accuracy: +/- 5 g
- Weight: kg 2,485
- Dimensions: cm 11 x 32 x 43

PIAT/R

Universal support for all refrigerant fluids

RE12A

Refrigerant recovery unit for domestic, commercial, industrial and automotive air-conditioners
Oil-less and air-cooled compressor, it recovers all commonly used refrigerant fluids, including R410A.
Protection of the compressor, in case of abnormalities and excessive pressure

Thermometers and thermostats

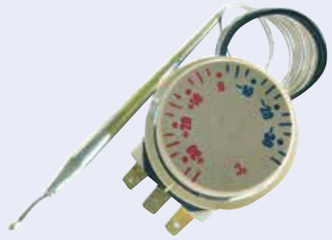
Thermostat without case
Probe lenght: 1500 mm

49PROD/711C
Range -35 °C +35 °C

49PROD/40C
Range 0 °C +40 °C

49PROD/CSC
Range -35 °C +35 °C

Thermostat with case
Probe lenght: 1500 mm



TM02
Range -50 °C +50 °C

Hang-on thermometer

WT-2

Portable thermometer with probe
Technical data:
- Range -50°C +300°C
- Precision degree ± 1°C (-20° to +80°)
- Battery 1.5V
- Decimal reading
- Dimensions mm 107 x 66 x 24

WT-1

Portable pen type thermometer
Technical data:
- Range -50°C +300°C
- Precision degree ± 1°C (-20° to +80°)
- Battery 1.5V AG13
- Decimal reading

TPM-10 WHITE / TPM-10N BLACK

Long-lasting digital thermometer
Technical data:
- LCD display with decimal reading
- Range -50°C +70°C
- Precision degree ± 1°C (-20° to +80°)
- 2 Batteries 1.5V AG13
- Dimensions mm 47,8 x 28,5 x 15

DST9C

Solar-cell thermometer; water-proof, suitable to use in damp environment. Used in refrigerators, refrigerated cabinets and display fridge counters. Without batteries
- Range: -50°C ~ +80°C
- Size: 66 x 30 x 11.6 mm
- Resolution: 0.1 °C
- Accuracy: ± 1 °C (-20 °C ~ +80 °C)
- Sensor length: 1 m
- Illumination: ≥ 100Lux

DST10C

Solar-cell thermometer; waterproof, suitable to use in damp environment. Used in refrigerators, refrigerated cabinets and display fridge counters. Without batteries
- Range: -50°C ~ +70°C
- Size: 140 x 36 x 16 mm
- Resolution: 0.1 °C
- Accuracy: ± 1 °C (-10 °C ~ +20 °C)
- Sensor length: 1.5 m
- Illumination: ≥ 200Lux

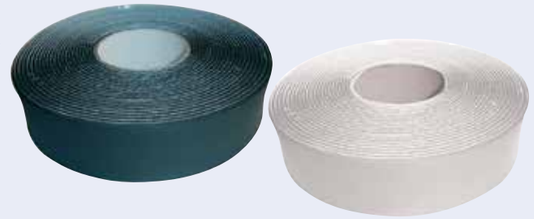
MT58990C

Infrared thermometer with laser pointer
- Range -20°C +320°C
- Precision degree ± 2°C (-20° to +100°)
- Distant / Spot ratio 8 : 1
- Automatically Auto power off
- Display with Backlight
- Battery 9V
- Battery life 12 hours
- Decimal reading

Adhesive tapes and sealant

Anticondensing tape *Roll of 10 m*

49NAC *Black*



49NAC/B *White*

49NC

Anticondensing tarred tape
Roll of 9,3 m

Aluminium tape *50 mm x 50 m*

49AL50/30 *Thickness: 0,03 mm*
49AL50/50 *Thickness: 0,05 mm*

M5811

Threadsealant
150 ml

Manifolds

2 ways manifold High and Low pressure gauges, complete with plastic case

CHM600C
Refrigerant: R600a

CHM134C
Refrigerant: R134a - R404A - R22 - R407C

CHM410C
Refrigerant: R410A

1 way gauge high and low pressure

MM600AC
HP - Refrigerant: R600a
MM600BC
LP - Refrigerant: R600a
MMS407AC
HP - Refrigerant: R134a - R404A - R22 - R407C
MMS407BC
LP - Refrigerant: R134a - R404A - R22 - R407C
MM410AC
HP - Refrigerant: R410A
MM410BC
LP - Refrigerant: R410A

Single gauge

D1005
HP - Refrigerant: R600a
D1004
LP - Refrigerant: R600a
D1009
HP - Refrigerant: R134a - R404a - R22 - R407C
D1008
LP - Refrigerant: R134a - R404a - R22 - R407C
D1007
HP - Refrigerant: R410A
D1006
LP - Refrigerant: R410A

Depressors, hose gaskets

Rubber gasket for hoses

MGT1/4
1/4” - 1 pack contains 10 pcs
MGT3/8
3/8” - 1 pack contains 10 pcs

MDT10

Depressor for hoses

1 pack contains 10 pcs

PUMPAIR

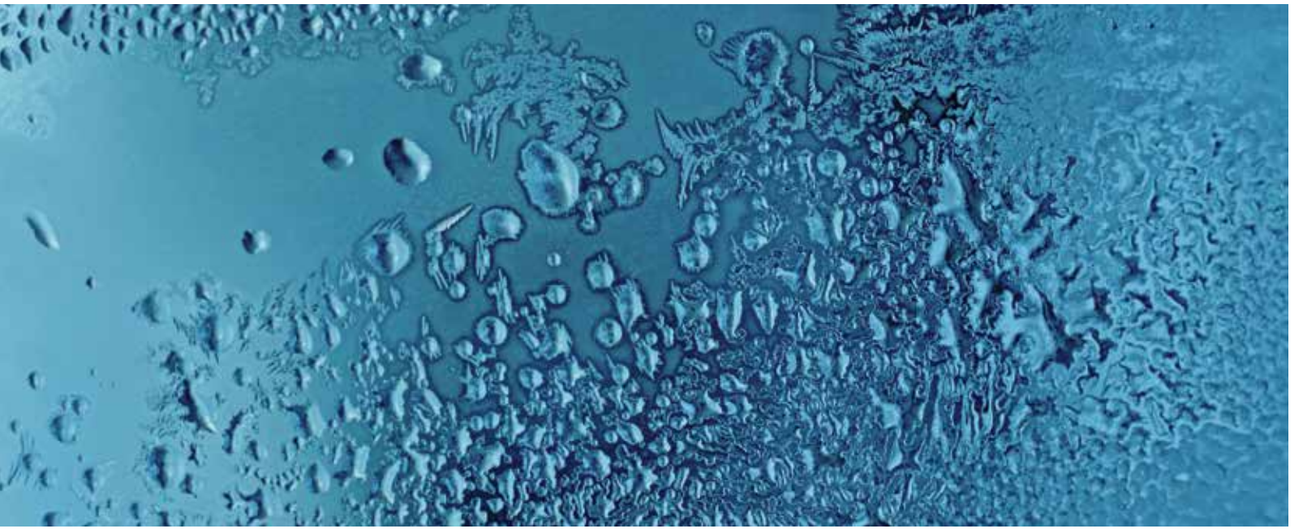
MKAIR
Portable nitrogen inflator
110 litri

PATENT PENDING

PumpAIR kit is used to pressurize the expansion vessel of hot water systems / boilers.
Thanks to its easy-to-use system, its lightweight and its space-saving, it allows rapid intervention on site.
It does not require an air compressor.

Ecological antifreeze fluid permanent type

Non-corrosive fluid for all metals present in the cooling or heating circuits.



Non-corrosive fluid ideal for all metals, especially aluminium, commonly found in the cooling or heating circuits (boilers, radiators, heating systems, chiller air conditioning units, etc ...). Pure solution, dilute at the required freezing point (see the table on the label) before use.

Monoethylene glycol

Ideal for solar pannels. Monoethylene glycol based ecological product, it does not contain harmful substances as amines and nitrites.

Propylene glycol

Specific for solar pannels. Propylene glycol based ecological product, it does not contain harmful substances as amines and nitrites.

IDEAL FOR SOLAR PANNEL
Thanks to its inhibitor package

TRGLYCO/6
6 kg Monoethylene glycol

TRGLYCO/12
12 kg Monoethylene glycol

TRGLYCO/28
28 kg Monoethylene glycol

Glycogelo L	Water L	Safety temp.
25	75	-12 °C
30	70	-17 °C
33	67	-20 °C
40	60	-26 °C
50	50	-38 °C

FOR USE IN FOOD SECTOR
Specific for solar pannels. Propylene glycol-based ecological product.

TRGLYCO/5P
5 kg Monoethylene glycol

TRGLYCO/10P
10 kg Monoethylene glycol

TRGLYCO/25P
25 kg Monoethylene glycol

Glycogelo"P" L	Water L	Safety temp.
25	75	-10 °C
30	70	-12 °C
40	60	-20 °C
50	50	-36 °C

Tools and instruments

CH127C
Tube cutter
For hoses in inches and millimeters
1/8” ÷ 5/8” - 4 ÷ 16 mm

ML127C
Cutting wheels fot kit CH127C
1 pack contains 10 pcs

CH274C
Tube cutter
For hoses in inches and millimeters
1/8” ÷ 1-1/8” - 4 ÷ 28 mm

ML274C
Cutting wheels for kit CH274C
1 pack contains 10 pcs

CH122C

Ratchet wrench
1/4” 3/8” 3/16” 5/16”

CH351C

Fin straightener comb
8 , 9 , 10 , 12 , 14 , 15 mm

CH1213C

Steel core removing tool for access valves

CH999RC

Tube benders kit
For hoses in inches and millimeters
3/8” 1/2” 5/8” 3/4” 7/8” 1/4” 5/16”
6, 8, 10, 12, 16, 19, 22 mm
Special reverse direction bending function

CH505MC

Tube benders kit
For hoses in millimeters
8, 10, 12, 14, 16, 18, 22 mm

CH1000C

Tube expander complete kit
For hoses in inches
3/8”, 1/2”, 5/8”, 3/4”, 7/8”, 1”, 1-1/8”

CH2000C

Tube expander complete kit
For hoses in millimeters
10 - 12 - 16 - 19 - 22 - 25 - 28 mm

CH128C

Capillary tube cutter

Expand heads

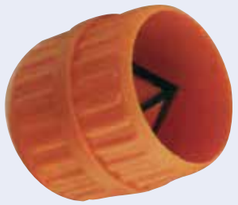
For expander kits CH1000C e CH2000C

CODE	Ø INCHES
MTP3/8C	3/8”
MTP1/2C	1/2”
MTP5/8C	5/8”

CODE	Ø mm
MTP8C	8 mm
MTP10C	10 mm
MTP12C	12 mm
MTP14C	14 mm
MTP16C	16 mm
MTP18C	18 mm
MTP22C	22 mm
MTP25C	25 mm
MTP28C	28 mm
MTP32C	32 mm
MTP35C	35 mm
MTP38C	38 mm
MTP42C	42 mm

CH201C

Locking “vice-grip” pinch-off plier



CH208C

Inner-outer reamer

Swaging punch

CH95PC

1/4” 5/16” 3/8” 1/2” 5/8”

CH95C

8 - 10 - 12 - 14 - 16 mm

Spring type bender

CODE	Ø mm
CH102-04C	1/4”
CH102-05C	5/16”
CH102-06C	3/8”
CH102-08C	1/2”
CH102-10C	5/8”

CT503C

Magnetized probe to pick-up nuts and bolts in hard to reach areas

Retracted: 12,8 cm
Extended: 64 cm

CT501C

Extending inspect mirror Ø 32 mm

Retracted: 12,7 cm
Extended: 50 cm

CT502C

Extending inspect mirror Ø 50 mm

Retracted: 20 cm
Extended: 41 cm

PV02C

Tube piercing valve of 1/4” SAE M

6,3 - 7,9 - 9,5 mm

CT806AMLC

Complete kit of eccentric cone type flaring tool
In inches and millimeters
6 - 8 - 10 - 12 - 14 - 16 - 19 mm
1/4” 5/16” 3/8” 1/2” 5/8” 3/4”

C275LC

Complete kit of flaring tool and swaging tool in inches
1/8” 3/16” 1/4” 5/16” 3/8” 1/2” 5/8” 3/4”

MCD7C

Torque wrenches complete kit with regulation torque wrench
Plastic case included

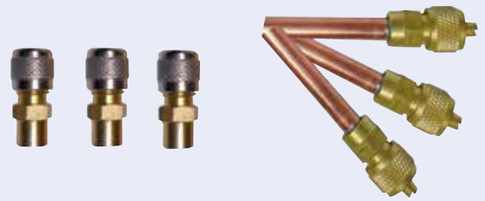
DIMENSION	1/4”	3/8”	1/2”	1/2”	5/8”	5/8”
WRENCH	17	22	24	26	27	29

Access valves

49VALVOLA/G

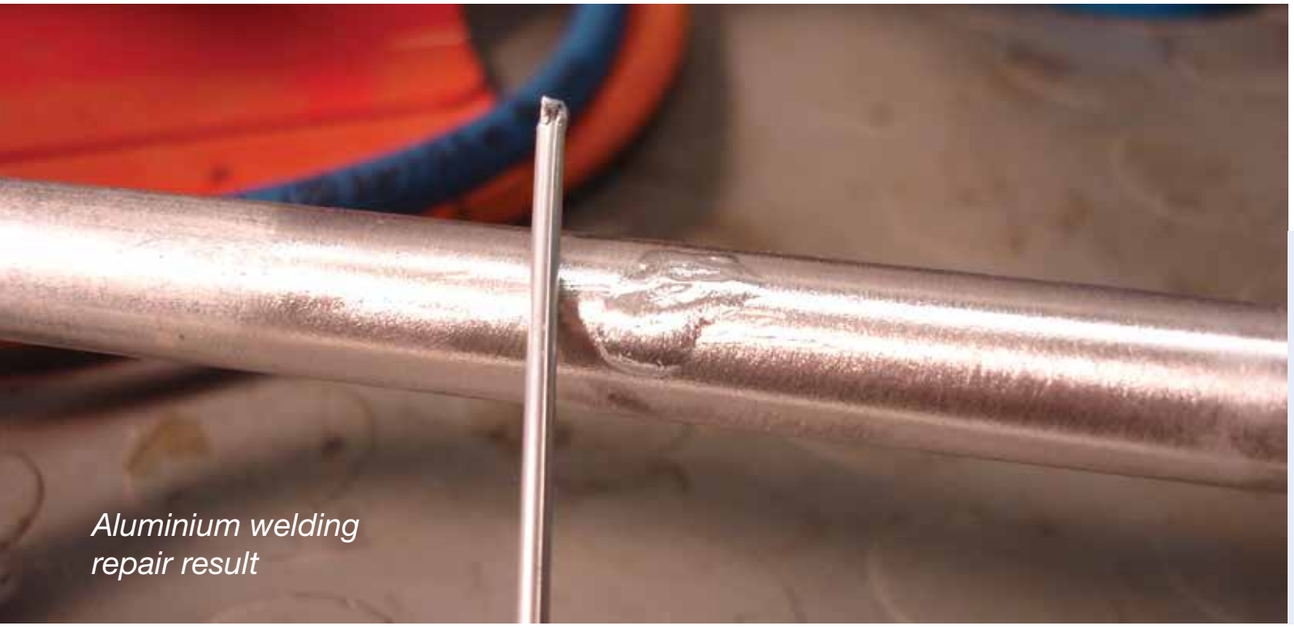
Multi-measure valve Ø 6.35 mm with security cap and core
For hoses from 1/8” to 3/8”

Access valve with cap and core



PICTURE	TUBE	CODE Ø 6,35 MM	CODE Ø 6 MM
1	-	49VALVOLA/S	49VALVOLA/S6.1
2	50 mm	49VCT/50C	49VCT/506C
2	70 mm	49VCT/70C	49VCT/706C
2	100 mm	49VCT/100C	49VCT/1006C
2	150 mm	49VCT/150C	49VCT/1506C
2	250 mm	49VCT/250C	49VCT/2506C

MAP//PRO welding line



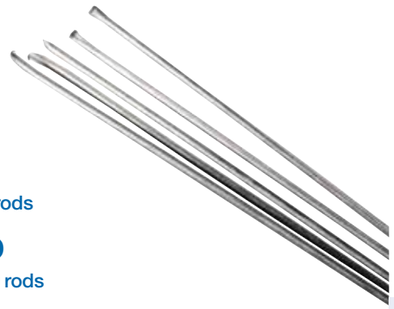
Aluminium welding repair result

MAP/P

MAP//PRO cylinder 400 g

Packaging of 12 pcs

Video available



LA9802/5

1 pack contains 5 rods

LA9802/10

1 pack contains 10 rods

Welding the ALUMINIUM has never been so EASY...

- *Ideal for evaporators and condensers*
- *Easy like welding the tin*
- *Non porous welding, ideal for A/C systems*
- *Excellent for hoses repair*
- *Only one welding torch is enough*

MAP/PG

1 MAP//PRO Cylinder + variable flame torch

MAP/P2

2 MAP//PRO cylinders MAP//PRO 400 g

2055 C°
The best performance

MAP/TS

Holster + torch
with 80 cm hose

MAP/TR

Propane torch with variable flame control function Ø 11.50 mm
Plastic handle

MAP/TR-1

Propane torch with variable flame control function Ø 9.40 mm
Aluminium handle

MAP/TR-2

Propane torch with variable flame control function Ø 11.50 mm
Aluminium handle

Specially formulated to avoid damages caused by heating of components and surrounding parts during the welding process.
Safe, non-toxic, kind to the skin and odorless.

TRFIRE/100 100 ml

Chill Gel
Heat sink for welding

Packaging of 12 pcs

TRFIRE/300 300 ml

Chill Gel
Heat sink for welding

Packaging of 6 pcs

NEW

Welding equipment

PATENTED

3050 C°

TURBO90

The smallest system for autogenous welding with disposable oxygen and gas cylinders. The kit is contained in an elegant space saving metal carrier. Compact, high performance, it allows the end-user to make professional welding. Turbo90 is suitable for hydraulics, air conditioning and refrigeration works.

The kit includes:

- *OXYGEN cylinder 100 l - 110 Bar*
- *MAXY GAS cylinder*
- *Oxygen pressure reducer and gas control valve with flashback arrestors with double protection*
- *Filler metal with deoxidizer*
- *2 m hoses with connections*
- *Handgrip torch with flame control valve and lance*
- *Microset (micro-welding kit)*
- *Protective goggles*
- *Multipurpose spanner*
- *Flint lighter*

12002001
OXYGEN cylinder 100 l - 110 Bar

Packaging 12 pcs

12003003
MAXI GAS cylinder

Packaging 12 pcs

Welding alloys

CODE	DESCRIPTION	Ø	PACKING
LA9802/5	Aluminium alloy	2 mm	5 rods
LA9802/10	Aluminium alloy	2 mm	10 rods
49COPPERFLOW1	Copper - phosphorus alloy	1,5 mm	1 kg
49COPPERFLOW	Copper - phosphorus alloy	1,5 mm	5 kg
49SILFOS2010	Copper - 20% silver COATED	1,5 mm	10 rods
49SILFOS20P15	Copper - 20% silver COATED	1,5 mm	1 kg
49ARGOSWIFT3010	Copper - 30% silver COATED	1,5 mm	10 rods
49ARGOSWIFT30	Copper - 30% silver COATED	1,5 mm	1 kg
LAR40/10	Copper - 40% silver COATED	1,5 mm	10 rods
49ARGOSWIFT40R	Copper - 40% silver COATED	1,5 mm	1 kg
LAR50040	Copper - 40% silver COATED	1,5 mm	500 g
LAN40	Copper - 40% silver NOT COATED	1,5 mm	5 rods
49ARGOSWIFT40	Copper - 40% silver NOT COATED	1,5 mm	1 kg
LAN50040	Copper - 40% silver NOT COATED	1,5 mm	500 g

CADMIUM-FREE

E0003
Display containing “Easy-to-use” refillable cylinders for AIR-CONDITIONERS

CODE	DESCRIPTION	QUANTITY
SP00150FB	150 ml Sanet in blister pack - Fresh perfume	6 pcs
SP00150VB	150 ml Sanet in blister pack - Vanilla perfume	6 pcs
SP00150BB	150 ml Sanet in blister pack - Blue Ocean perfume	6 pcs
TR407/1M-FE	R407C 850 g refillable cylinder with gauge	6 pcs
TR422B/1M-FE	R422BC 850 g refillable cylinder with gauge	6 pcs
TR410/1M-FE	R410A 800 g refillable cylinder with gauge	6 pcs
TR407/1MR-FE	R407C 850 g recharge cylinder	6 pcs
TR422B/1MR-FE	R422B 850 g recharge cylinder	6 pcs
TR410/1MR-FE	R410A 800 g recharge cylinder	6 pcs
TRCLEAN1	Nevada Clean-L spray bottle - 1 l	3 pcs
K747	Flushing kit for the inner flushing	1 pcs
TRFG1	Nevada K5100 inner flushing fluid - 1 l	3 pcs

Mariel srl

Headquarters
Via Olubi, 5- 28013 GATTICO (NO) ITALY | Tel. +39 0322 838319 Fax. +39 0322 838813
Production and logistics
Via Boggia, 33- 28013 GATTICO (NO)

web: **www.mariel.it**
e-mail: **info@mariel.it**

Mariel
REFRIGERATION & AIR CONDITIONING