



1976 - 2026



2026 | 2027

**AIR CONDITIONING AND REFRIGERATION
SYSTEMS AND INSTRUMENTS**





1976 - 2026

**AIR CONDITIONING AND REFRIGERATION
SYSTEMS AND INSTRUMENTS**

**2026
2027**

Since 1976 environmentally friendly technics and equipments



A long history since 1976

Since 1976, year of its establishment, Wigam has been a structure specialized in the equipment for refrigeration and air-conditioning for the civil and automotive sector.

Wigam has always paid a very particular attention to issues related to environmental protection. The continuous innovation brought to the solutions for the handling of the various refrigerants, with a particular attention to the new low environmental impact mixtures and natural refrigerants, goes hand in hand with the training activities provided for the professionals of the sector.

Following this ideal, Wigam encourages the professionals to operate with the utmost respect to the ecosystem thanks to quality and avant-garde solutions.

In 2021 Wigam undertook the expansion of its Italian production site in Castel San Niccolò with an additional 6000 square metres of covered space.



Consult our website with your mobile phone QR

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The WIGAM logo features a stylized blue diamond shape with a white 'V' inside, followed by the word 'WIGAM' in a bold, white, sans-serif font with a blue outline.

1976 - 2026



Valencia (Spagna)

OUR COMPANY AT YOUR DISPOSAL

- DESIGN • PRODUCTION • SALE
- TRAINING • CERTIFICATIONS
- TECHNICAL SUPPORT
- REPAIRS SERVICE



Cert. Nr. 50 100 3770

Design vocation and search for quality

The design and creative vocation of the firm, and its continuous search for quality have made Wigam a reference Company, where highly qualified personnel develop, manufacture and control instruments and equipment of high technology.





 WIGAM

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1976 - 2026



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New with the
Best Quality

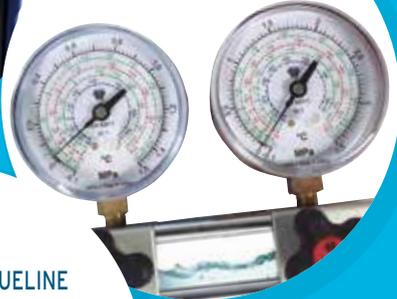
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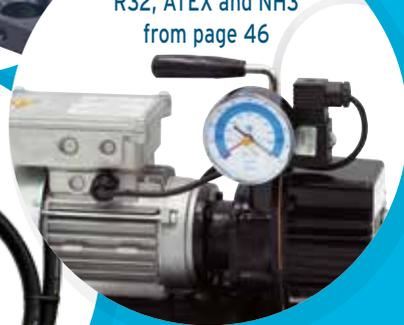
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CO₂, HC and
NH₃ DIGITAL
MANIFOLDS
page 98,
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VACUUM KIT
page 48



CALIBRATION

Issue of calibration report or renewal for equipment already purchased

The company that carries out installation, maintenance or repair of fixed systems of refrigeration, air-conditioning and heat pumps containing some fluorinated greenhouse gases (EC Regulation N° 303/2008) must obligatorily own a minimum list of instruments and equipment, in order to be certified by an organization. Furthermore, each organization demands the calibration of some of the products from the list. Warning: not all certification organizations require the same minimum equipment, nor the same products with calibration report. We kindly request you to ask for detailed information to your certification organization regarding the minimum list of instruments and equipment you must own and the products for which the calibration certificate is requested. Calibration is an additional service against payment and is necessary even if the product is new.



WIGAM offers a service of calibration/check for the instruments that are necessary to the operators who are part of the CE 303/2008 regulations, by means of a metrology laboratory equipped with certified primary samples, controlled environmental conditions and following procedures pertaining to the quality system of the company.

The skilled workers, who are highly qualified and constantly updated, operate with the most modern data processing systems, with digital storage of all the metrological documents.

Categories subjected to calibration

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RECYCLING AND RECOVERY SYSTEMS

F-GAS REGULATION - PHASE DOWN

EU Regulation 573/2024 (formerly EU 517/2014) initiates a drastic reduction (phase-down) of HFCs in the EU, with the objective of eliminating high-GWP fluorinated gases by 2050.

The phase-down introduces progressively decreasing quotas, with a 95% reduction by 2030 (compared to 2015 levels).

From January 1, 2026, an economic contribution of €3 per ton of CO₂ equivalent will also be due for all virgin refrigerants, calculated based on the GWP of the specific gas.

Example:

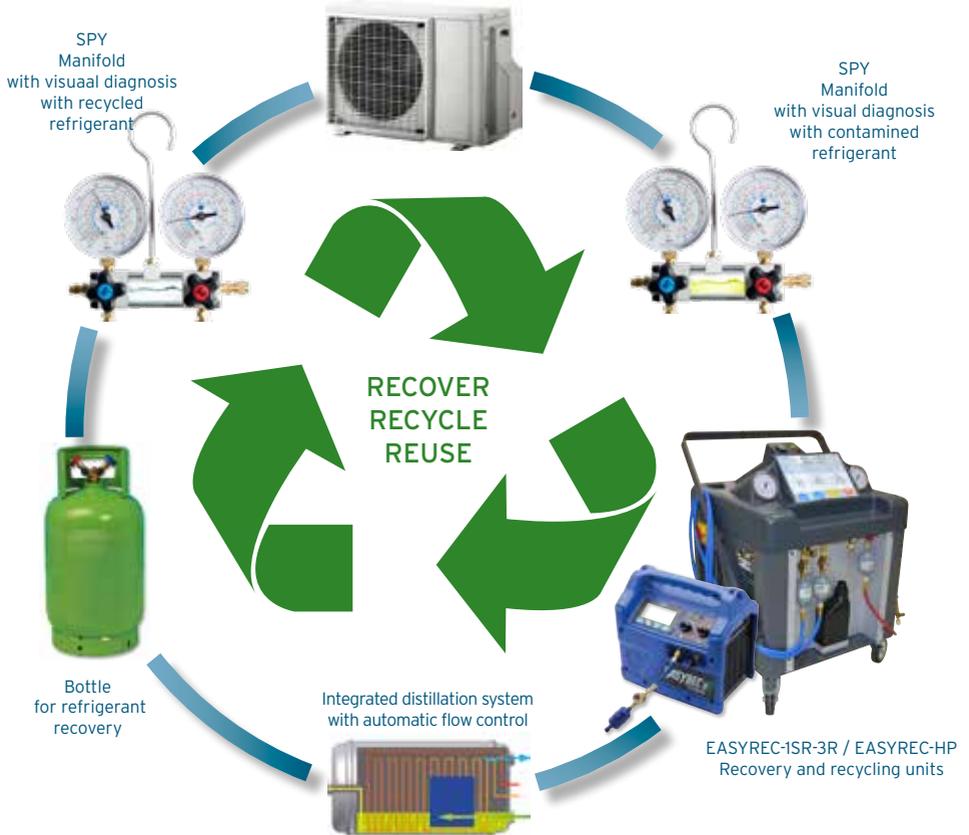
GAS	GWP	Amount €/ton CO ₂ eq.	Extra contribution per Kg
R410A	2,088	3,00 €/ton	6,264 €/kg



SAVE
THE PLANET



SAVE
MONEY



The higher the GWP of the refrigerant, the more it will come under pressure by the HFC phase-down, leading to likely **price increases and potential shortages.**

Pure HFOs, CO₂, hydrocarbons, ammonia, reclaimed or recycled HFCs etc. do not fall under the phase-down.

Recycled and reclaimed HFCs - even with a GWP > 2500 - can still be used for service until 2030.

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RECOVERY AND RECYCLING UNITS

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RECOVERY-RECYCLING UNITS

COMPACT AND LIGHT DESIGN

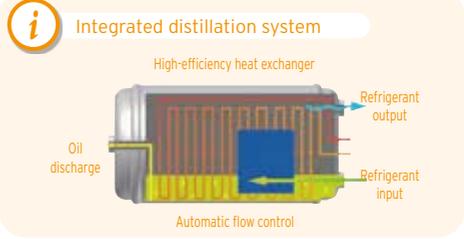


EASYREC-3R

High performance recovery and recycling unit for CFC, HCFC, HFC and HFO (included R32 and R1234ze)

- High performances thanks to the powerful 1 HP compressor and to the higher capacity condenser.
- Very compact and light design with integrated distiller.
- Exclusive distillation device with liquid refrigerant flow check which:
 - allows to separate oil/impurities/dyes very efficiently.
 - optimizes the compressor's operating conditions.
- Ceramic cylinders with carbon fibre seal for superior reliability.
- Large, intuitive heavy-duty digital display that supports the user in the recovery and recycling phases guiding him as well with the discharge procedure of oil/impurities/dye.
- Multiple selectable recovery and recycling modes.
- Automatic stop of the unit at the end of recovery with visual and acoustic indication.
- Shut-off valves that prevent refrigerant spills.
- Self-evacuation (PURGE) device, which allows to change type of refrigerant easily.
- Safety device for maximum pressure.
- Sight-glass and filters included.

Code	Model	Dimensions	Weight
13001029	EASYREC-3R	380 x 360 x 250 mm	13,90 kg



TECHNICAL FEATURES

Refrigerant	CFC, HCFC, HFC e HFO (included R32 and R1234ze)
Power supply	220 - 240V AC 50 - 60 Hz
Maximal current draw	8A
Compressor	Double piston, dry
Automatic safety shut-off	38.5 bar/3850 kPa (558 psi)
Operating temperature	0 - 40 °C

Recovery rate	R1234ze-R134a	R502-R407C	R404A-R410A-R507-R32
Vapour	29 kg/h	32 kg/h	33 kg/h
Liquid (recovery)	214 kg/h	340 kg/h	380 kg/h
Liquid (recovery-recycling)	30 kg/h	34 kg/h	35 kg/h
Push-pull	372 kg/h	474 kg/h	502 kg/h



REGULATION F-GAS UE-573/2024 (EX EU-517/2014)

ARTICLE 13 - CONTROL OF USE

From January 1, 2020, the use of fluorinated greenhouse gases with a GWP of 2500 or higher has been prohibited for the servicing or maintenance of refrigeration equipment with a refrigerant charge size of 40 tonnes of CO2 equivalent or more. From January 1, 2025, this ban is extended to all refrigeration systems, regardless of the refrigerant charge.

In accordance with Article 13(3)(b), **until January 1, 2030, recycled** fluorinated greenhouse gases with a GWP of 2500 or higher contained in refrigeration systems with a charge size of 40 tonnes of CO₂ equivalent or **more may be used for the maintenance or repair of existing refrigeration equipment**, provided that they have been recovered from such equipment.

These recycled gases may be used solely by the company that carried out the servicing, or on whose behalf the recovery was performed for maintenance or servicing purposes.

The Regulation (EU) No. 517/2014 Article 2(15) and the new Regulation (EU) No. 573/2024, Article 3(12), define "recycling" as the reuse of a recovered fluorinated greenhouse gas following a basic cleaning process.



DIGITAL DISPLAY

Large, intuitive heavy-duty digital display that supports the user in the recovery and recycling phases guiding him as well with the discharge procedure of oil/impurities/dye.

The recycling unit automatically stops the operation and signals by means of the "oil" indicator light that it is necessary to discharge oil/impurities/dyes separately from the refrigerant; it then re-starts the operation and completes the recovery and recycling.



BUILT-IN DISTILLATION DEVICE

The Recovery and Recycling unit EASYREC-3R becomes unique and unrivalled if you consider that there is a built-in DISTILLATION DEVICE WITH FLOW CHECK which:

- allows RECYCLING with the efficient separation of oil/impurities/dyes.
- OPTIMIZES the compressor's OPERATING conditions by providing it with saturated steam in suction and freeing the operator from the burden of reducing the flow.



SIMPLICITY AND FLEXIBILITY

With EASYREC-3R, everything is at hand, simple and intuitive. Thanks to the "Working mode" knobs situated on the rear panel, it is possible to decide whether to operate ONLY the RECOVERY, in case the refrigerant must be disused, or to operate RECOVERY and RECYCLING aimed at purifying and then reusing the refrigerant. In this case pollutants will be separated and discharged simply through the dedicated valve.



Spare parts and accessories



Ref	Code	Model	Description	Dimensions	Weight
A	14015008	MG-111	Filter drier (1/4" SAE M-M)	100 x 40 x 40 mm	0,28 kg
A	14015041	MG-111-A	Filter drier (1/4" SAE M-M) with alumina	100 x 40 x 40 mm	0,28 kg
B	14015013	XH412	"High capacity" filter drier (1/4" SAE M-M)	250 x 80 x 80 mm	1,10 kg
B	14015042	XH412-A	"High capacity" filter drier (1/4" SAE M-M) with alumina	250 x 80 x 80 mm	1,10 kg
C	14020014001	G19020-WIG	Kit 10 gaskets for 1/4" SAE flexible hoses	160 x 90 x 10 mm	0,02 kg
D	06071013003	GYSS/4-4/6/Y	Connection hose for filter 1/4" SAE 150 mm	250 x 50 x 50 mm	0,16 kg
E	13008026	RECO26	Sight glass	90 x 40 x 50 mm	0,17 kg

RECOVERY UNITS



DIGITAL DISPLAY

EASYREC-3

High performance recovery unit for CFC, HCFC, HFC and HFO (included R32 and R1234ze)

- High performances thanks to the powerful 1 HP compressor and to the higher capacity condenser.
- Very compact and light design.
- Ceramic cylinders with carbon fibre seal for superior reliability.
- Large, intuitive heavy-duty digital display that supports the user in the recovery phase with multiple information.
- Multiple selectable recovery modes.
- Automatic stop of the unit at the end of recovery with visual and acoustic indication.
- Shut-off valves that prevent refrigerant spills.
- Self-evacuation (PURGE) device, which allows to change type of refrigerant easily.
- Safety device for maximum pressure.
- Sight-glass and filters included.

Code	Model	Dimensions	Weight
13001028	EASYREC-3	380 x 360 x 250 mm	10,90 kg

TECHNICAL FEATURES

Refrigerant	CFC, HCFC, HFC e HFO (included R32 and R1234ze)
Power supply	220 - 240V AC 50 - 60 Hz
Maximal current draw	8A
Compressor	Double piston, dry
Automatic safety shut-off	38.5 bar/3850 kPa (558 psi)
Operating temperature	0 - 40 °C

Recovery rate	R1234ze- R134a	R502- R407C	R404A-R410A- R507-R32
Vapour	29 kg/h	32 kg/h	33 kg/h
Liquid (recovery)	214 kg/h	340 kg/h	380 kg/h
Push-pull	372 kg/h	474 kg/h	502 kg/h



Spare parts and accessories



Ref	Code	Model	Description	Dimensions	Weight
A	14015008	MG-111	Filter drier (1/4" SAE M-M)	100 x 40 x 40 mm	0,28 kg
A	14015041	MG-111-A	Filter drier (1/4" SAE M-M) with alumina	100 x 40 x 40 mm	0,28 kg
B	14015013	XH412	"High capacity" filter drier (1/4" SAE M-M)	250 x 80 x 80 mm	1,10 kg
B	14015042	XH412-A	"High capacity" filter drier (1/4" SAE M-M) with alumina	250 x 80 x 80 mm	1,10 kg
C	14020014001	G19020-WIG	Kit 10 gaskets for 1/4" SAE flexible hoses	160 x 90 x 10 mm	0,02 kg
D	06071013003	GYSS/4-4/6/Y	Connection hose for filter 1/4" SAE 150 mm	250 x 50 x 50 mm	0,16 kg
E	13008026	RECO26	Sight glass	90 x 40 x 50 mm	0,17 kg

EASYREC-3EX

High performance recovery unit for flammable refrigerants (included R600a and R290)

Unit EASYREC-3EX, specially DESIGNED according to the ATEX directive (CE Atex II 3G), is suitable to RECOVER FLAMMABLE REFRIGERANTS belonging to the A3 family as well, such as R600a and R290.

- High performances thanks to the powerful 1 HP compressor and to the higher capacity condenser.
- Very compact and light design.
- Ceramic cylinders with carbon fibre seal for superior reliability.
- Large, intuitive heavy-duty digital display that supports the user in the recovery phase with multiple information.
- Multiple selectable recovery modes.
- Automatic stop of the unit at the end of recovery with visual and acoustic indication.
- Shut-off valves that prevent refrigerant spills.
- Self-evacuation (PURGE) device, which allows to change type of refrigerant easily.
- Safety device for maximum pressure.
- Sight-glass and filters included.

Code	Model	Dimensions	Weight
13001030	EASYREC-3EX	380 x 360 x 250 mm	11,90 kg



CE Atex II 3G



DIGITAL DISPLAY

TECHNICAL FEATURES

Refrigerant	HC (R600a-R290) CFC-HCFC-HFC-HFO
Power supply	220 - 240V AC 50 - 60 Hz
Maximal current draw	6A
Compressor	Double piston, dry
Automatic safety shut-off	38.5 bar/3850 kPa (558 psi)
Operating temperature	0 - 40 °C

Recovery rate	R600a- R1234yf-R134a	R290- R502-R407C	R404A-R410A R507-R32
Vapour	29 kg/h	32 kg/h	33 kg/h
Liquid (recovery)	214 kg/h	340 kg/h	380 kg/h
Push-pull	372 kg/h	474 kg/h	502 kg/h



Spare parts and accessories



Ref	Code	Model	Description	Dimensions	Weight
A	14015008	MG-111	Filter drier (1/4" SAE M-M)	100 x 40 x 40 mm	0,28 kg
A	14015041	MG-111-A	Filter drier (1/4" SAE M-M) with alumina	100 x 40 x 40 mm	0,28 kg
B	14015013	XH412	"High capacity" filter drier (1/4" SAE M-M)	250 x 80 x 80 mm	1,10 kg
B	14015042	XH412-A	"High capacity" filter drier (1/4" SAE M-M) with alumina	250 x 80 x 80 mm	1,10 kg
C	14020014001	G19020-WIG	Kit 10 gaskets for 1/4" SAE flexible hoses	160 x 90 x 10 mm	0,02 kg
D	06071013003	GYSS/4-4/6/Y	Connection hose for filter 1/4" SAE 150 mm	250 x 50 x 50 mm	0,16 kg
E	13008026	RECO26	Sight glass	90 x 40 x 50 mm	0,17 kg

RECOVERY-RECYCLING UNITS



NEW



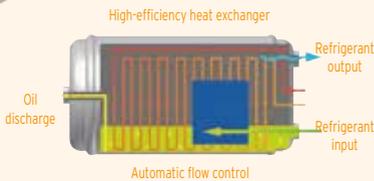
DISPLAY DIGITALE

Large, intuitive heavy-duty digital display that supports the HVAC&R technician during recovery and recycling operations, also guiding the oil/impurities/additives discharge procedure.

The recycling unit automatically stops operation and, through the "oil" indicator light, signals when it is necessary to drain the oil/impurities/additives separated from the refrigerant. Once the discharge procedure is completed, the unit resumes operation and finishes the recovery and recycling process.



Integrated distillation system



EASYREC-1SR

Recovery and recycling unit for CFCs, HCFCs, HFCs and HFOs (including R32 and R1234ze)

- Super compact and lightweight design with built-in distiller.
- Exclusive distillation system with liquid refrigerant flow control that:
 - Ensures highly effective separation of oil / impurities / additives.
 - Optimizes the compressor operating conditions.
- Higher capacity condenser.
- Ceramic cylinders with carbon fiber seals for superior reliability.
- Large, intuitive heavy-duty digital display that supports the HVAC-R technician during recovery and recycling operations, also guiding the oil / impurities / additives discharge procedure.
- Multiple recovery or recycling modes, easily selectable.
- Automatic shut-off at the end of recovery with visual and audible indication.
- Shut-off valves to prevent refrigerant leakage.
- Self-evacuation device (PURGE) allowing to easily change the refrigerant type.
- Maximum pressure safety device.
- Sight glass and filter included.

Code	Model	Dimensions	Weight
13001033	EASYREC-1SR	380 x 360 x 250 mm	12,80 kg

TECHNICAL FEATURES

Refrigerants	CFC, HCFC, HFC e HFO (included R32 and R1234ze)
Power supply	220 - 240V AC 50 - 60 Hz
Maximal current draw	5A
Compressor	Piston, dry
Automatic safety shut-off	38.5 bar/3850 kPa (558 psi)
Operating temperature	0 - 40 °C

Recovery rate	R1234ze-R134a	R502-R407C	R404A-R410A-R507-R32
Vapour	15 kg/h	17 kg/h	18 kg/h
Liquid (recovery)	107 kg/h	120 kg/h	146 kg/h
Liquid (recovery-recycling)	16 kg/h	17 kg/h	18 kg/h
Push-pull	276 kg/h	336 kg/h	378 kg/h



REGULATION F-GAS UE-573/2024 (EX EU-517/2014)

ARTICLE 13 - CONTROL OF USE

From January 1, 2020, the use of fluorinated greenhouse gases with a GWP of 2500 or higher has been prohibited for the servicing or maintenance of refrigeration equipment with a refrigerant charge size of 40 tonnes of CO₂ equivalent or more. From January 1, 2025, this ban is extended to all refrigeration systems, regardless of the refrigerant charge.

In accordance with Article 13(3)(b), **until January 1, 2030, recycled** fluorinated greenhouse gases with a GWP of 2500 or higher contained in refrigeration systems with a charge size of 40 tonnes of CO₂ equivalent or **more may be used for the maintenance or repair of existing refrigeration equipment**, provided that they have been recovered from such equipment.

These recycled gases may be used solely by the company that carried out the servicing, or on whose behalf the recovery was performed for maintenance or servicing purposes.

The Regulation (EU) No. 517/2014 Article 2(15) and the new Regulation (EU) No. 573/2024, Article 3(12), define "recycling" as the reuse of a recovered fluorinated greenhouse gas following a basic cleaning process.

EASYREC-1S

Recovery unit suitable for CFCs, HCFCs, HFCs and HFOs (including R32 and R1234ze)

- Super compact and lightweight design.
- Higher capacity condenser.
- Ceramic cylinders with carbon fiber seals for superior reliability.
- Large, intuitive heavy-duty digital display providing the HVAC&R technician with multiple recovery-related information.
- Multiple recovery modes, easily selectable.
- Automatic shut-off at the end of refrigerant recovery with visual and audible indication.
- Shut-off valves to prevent refrigerant leakage.
- Self-evacuation device (PURGE) allowing to easily change the refrigerant type.
- Maximum pressure safety device.
- Sight glass and filter included.



Code	Model	Dimensions	Weight
13001032	EASYREC-1S	380 x 360 x 250 mm	9,80 kg

TECHNICAL FEATURES

Refrigerants	CFC, HCFC, HFC e HFO (included R32 and R1234ze)
Power supply	220 - 240V AC 50 - 60 Hz
Maximal current draw	5A
Compressor	Piston, dry
Automatic safety shut-off	38.5 bar/3850 kPa (558 psi)
Operating temperature	0 - 40 °C



DIGITAL DISPLAY

Large, intuitive heavy-duty digital display that supports the HVAC-R technician during recovery operations.

Recovery rate	R1234ze- R134a	R502- R407C	R404A-R410A- R507-R32
Vapour	15 kg/h	17 kg/h	18 kg/h
Liquid (recovery)	107 kg/h	120 kg/h	146 kg/h
Push-pull	276 kg/h	336 kg/h	378 kg/h



Spare parts and accessories



Ref	Code	Model	Description	Dimensions	Weight
A	14015008	MG-111	Filter drier (1/4" SAE M-M)	100 x 40 x 40 mm	0,28 kg
A	14015041	MG-111-A	Filter drier (1/4" SAE M-M) with alumina	100 x 40 x 40 mm	0,28 kg
B	14015013	XH412	"High capacity" filter drier (1/4" SAE M-M)	250 x 80 x 80 mm	1,10 kg
B	14015042	XH412-A	"High capacity" filter drier (1/4" SAE M-M) with alumina	250 x 80 x 80 mm	1,10 kg
C	14020014001	G19020-WIG	Kit 10 gaskets for 1/4" SAE flexible hoses	160 x 90 x 10 mm	0,02 kg
D	06071013003	GY5/4-4/6/Y	Connection hose for filter 1/4" SAE 150 mm	250 x 50 x 50 mm	0,16 kg
E	13008026	RECO26	Sight glass	90 x 40 x 50 mm	0,17 kg

RECOVERY UNITS



EASYREC-1

Recovery unit suitable for CFC, HCFC, HFC and HFO (included R32 and R1234ze)

- Self-evacuation system (PURGE) which allows to change the type of refrigerant easily.
- Automatic shut-off of the unit when there is no refrigerant left in the system.
- Signal LED (green/cycle performed successfully - red/alarm).
- Safety device for maximum pressure.
- Two shut-off valves to prevent refrigerant leakage.
- "Pulse Free" gauges with regulation screw.
- Ceramic cylinder with carbon fiber seal.
- Sight glass and filter included.

Code	Model	Dimensions	Weight
13001019	EASYREC-1	545 x 300 x 395 mm	15,5 kg

Recovery rate	R1234ze- R134a	R502- R407C	R404A-R410A- R507-R32
Vapour	14 kg/h	15 kg/h	16 kg/h
Liquid (recovery)	96 kg/h	108 kg/h	132 kg/h
Push-pull	276 kg/h	336 kg/h	378 kg/h

TECHNICAL FEATURES

Refrigerants	CFC, HCFC, HFC e HFO (included R32 and R1234ze)
Power supply	220 - 240V AC 50 - 60 Hz
Maximal current draw	550W
Compressor	4A
Automatic safety shut-off	Double piston, dry
Operating temperature	38.5 bar/3850 kPa (558 psi)



Spare parts and accessories



Ref	Code	Model	Description	Dimensions	Weight
A	14015008	MG-111	Filter drier (1/4" SAE M-M)	100 x 40 x 40 mm	0,28 kg
A	14015041	MG-111-A	Filter drier (1/4" SAE M-M) with alumina	100 x 40 x 40 mm	0,28 kg
B	14015013	XH412	"High capacity" filter drier (1/4" SAE M-M)	250 x 80 x 80 mm	1,10 kg
B	14015042	XH412-A	"High capacity" filter drier (1/4" SAE M-M) with alumina	250 x 80 x 80 mm	1,10 kg
C	14020014001	G19020-WIG	Kit 10 gaskets for 1/4" SAE flexible hoses	160 x 90 x 10 mm	0,02 kg
D	06071013003	GYSS/4-4/6/Y	Connection hose for filter 1/4" SAE 150 mm	250 x 50 x 50 mm	0,16 kg
E	13008026	RECO26	Sight glass	90 x 40 x 50 mm	0,17 kg

EASYREC-HP

The ideal recovery-recycling unit for large refrigeration systems with high quantities of refrigerant

- Suitable for CFC-HCFC, HFC and HFO (included R32 and R1234ze).
- Distillation device with automatic refrigerant flow check, which allows to separate oil/impurity/dyes very efficiently.
- Self evacuation system (PURGE) which allows to change the type of refrigerant easily.
- Automatic shut-off of the system at the end of the recovery-recycling cycle (green light on).
- Safety pressure switch (red light on - alarm).
- Shut-off valves to prevent refrigerant leakage.
- Ø80 pulse free gauges with adjustment screw.
- Flexible hoses 1500mm with shut-off valves.
- Two filters on the suction side and one filter on the pressure side.
- Two sight glasses on the suction side.

HIGH PERFORMANCE



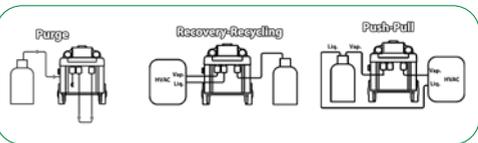
Code	Model	Dimensions	Weight
13001025	EASYREC-HP	605 x 570 x 800 mm	65 kg

TECHNICAL FEATURES

Refrigerants	CFC, HCFC, HFC e HFO (included R32 and R1234ze)
Power supply	230/1/50
Motor power	1800W
Maximal current draw	8A
Compressor	Lubricated
Automatic safety shut-off	37 bar
Operating temperature	10 - 50 °C

Recovery rate

Recovery-recycling	60 kg/h
Push-pull	660 kg/h



Spare parts and accessories

Code	Model	Description	Min. Qty
14015008	MG-111	Filter drier (1/4" SAE M-M)	-
14015041	MG-111-A	Filter drier (1/4" SAE M-M) with alumina	-
14015013	XH412	"High capacity" drier filter (1/4" SAE M-M)	-
14015042	XH412-A	"High capacity" drier filter (1/4" SAE M-M) with alumina	-
13008026	REC026	Sight glass	-
06077002001	V/GYSS/4-4/60B	Blue flexible hose 1500 mm with valve	-
06077002002	V/GYSS/4-4/60R	Red flexible hose 1500 mm with valve	-
06077002003	V/GYSS/4-4/60Y	Yellow flexible hose 1500 mm with valve	-
06071013003	GYSS/4-4/6/Y	Filter connection tube 1/4" SAE 150 mm	-
12002017	W68	Ester oil 1000 cc	12 pz

REFRIGERANT TRANSFER SYSTEMS

NEW

HIGH TRANSFER CAPACITY



BOOSTREF-HP

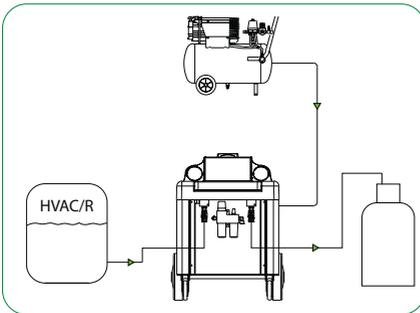
Pneumatic unit ideal for transferring large quantities of refrigerant

- High-flow pneumatic pump: up to 48 l/min (with 1000 l/min air flow).
- Not subject to problems when operating dry.
- Pressure multiplication coefficients: 6:1.
- Inlet air pressure regulator with filter and lubricator.
- 3 pulse-free Ø80 gauges for the air line and the refrigerant lines.
- Wheeled frame for optimal mobility.

Code	Model	Dimensions	Weight
13001035	BOOSTREF-HP	605 x 570 x 800 mm	42 Kg

TECHNICAL FEATURES

Maximum discharge pressure	48 bar (6 x air supply pressure)
Maximum air inlet pressure	8 bar
Pressure multiplication coefficients	6:1
Service hoses connections	3/8" SAE (hoses not included)



Accessories

Code	Model	Description
06141002	IVPSS/6-6/60	3/8" SAE flexible hose, length 1500 mm
06141003	IVPSS/6-6/120	3/8" SAE flexible hose, length 3000 mm



MF4/KK

Transfer pump for refrigerant and lubricant

- Usable with all refrigerants in liquid phase.
- Volumetric gear pump.

Ref	Code	Model	Description
A	02041015	MF-4/KK	High vane pump
B	15014009	71/4F-M*	Motor for MF4/KK

* Without switch

Ref	Code	Dimensions	Weight
A	02041015	100 x 140 x 175 mm	1,6 kg
B	15014009	250 x 170 x 180 mm	7 kg

TECHNICAL FEATURES

	MF4/KK	71/4F-M
Flow rate with 20 cPs fluid	3 ÷ 4 l/min.	-
Flow rate with lubricant	4 ÷ 5 l/min.	-
Max. Δ pressure	15 bar	-
Viscosity cPs	1 ÷ 60	-
Connections	3/8" GAS	-
Power supply		230/1/50
Motor power		370W



RECOVERY BOTTLES W2 SERIES

12.5 and 40 liters refillable bottles with double valve (liquid/vapour).
Ideal for storing refrigerants recovered/recycled from refrigeration systems.

Ref	Code	Model	Capacity	Min. Qty
A	11001062	W2-WR10K/48	12,5 lt	2
B	11001124	W2-WR9K/48/5	12,5 lt	2
C	11001059	W2-WR40K/49	40 lt	-

Ref	Code	Weight	Connections
A	11001062	5,9 kg	1/4" SAE
B	11001124	5,9 kg	5/16" SAE
C	11001059	21 kg	1/4" SAE



Spare parts

Code	Model	Valve suitable for cylinder
05002016	RF2-1/4"	W2-WR10K/48
05002032	RF2-5/16"	W2-WR9K/48/5
05002022	RF2-40K/1/4"	W2-WR40K/49



Hydrocarbons recovery R600a-R290-R1270



R-ECOPUMP is the system specifically designed for the recovery/transfer/charge of flammable refrigerants, such as R600a-R290-R1270 (HC).

Unit EASYREC-3EX, specially DESIGNED according to the ATEX (CE Atex II 3G) directive, is suitable to RECOVER FLAMMABLE REFRIGERANTS belonging to the A3 family as well, such as R600a and R290.

SEE PAGE 110

REFRIGERANT VISUAL DIAGNOSIS

SPY-CHECK HVAC

Diagnosis instrument to check the quality of the refrigerant

Equipped with an integrally transparent cylindrical body, it allows the important visual diagnosis of the refrigerant instantly. It clearly shows the condition of the refrigerant, the presence of any contaminants and the appropriate mixing with oils and additives.

It has two 1/4" sae connections on both sides, one male with valve and the other one swivel female.



Ref.	Code	Description	Dimensions with pack	Weight with pack
A	13006081	SPY-CHECK-HVAC	220x240x45mm	0.6Kg
A	13006092	SPY-CHECK-L/R-HVAC	220x240x45mm	0.6Kg
B	13006080	SPY-TOTAL-CHECK-HVAC	220x240x45mm	1.0Kg

TECHNICAL FEATURES

	SPY-CHECK-HVAC A	SPY-CHECK-L/R-HVAC A	SPY-TOTAL-CHECK-HVAC B
Flexible hoses	No	No	1x blue 900mm 1/4" SAE, 1x red 900mm 1/4" SAE
Input connection	1/4" SAE swivel F	1/4" SAE F swivel - 1/2" 16 ACME F swivel	1/4" SAE swivel F - 1/4" SAE M with valve
Output connection	1/4" SAE M with valve	1/4" SAE M con valvola	1/4" SAE M with valve
Maximum working pressure	42bar (4.2MPa)	42bar (4.2MPa)	42bar (4.2MPa)
Refrigerants	CFC, HCFC, HFC, HFO, HC	CFC, HCFC, HFC, HFO, HC	CFC, HCFC, HFC, HFO, HC

ANALYSIS OF THE RECOVERED AND RECYCLED REFRIGERANT

Thanks to its 1/4"SAE swivel female connection, **SPY-CHECK-HVAC** can be connected to the recovery unit, thus allowing to check the recovered or rather recycled refrigerant.

It is possible to connect **SPY-CHECK-HVAC** only to the outlet of the recovery unit to check what is coming into the bottle.

By using a second **SPY-CHECK-HVAC** connected on the suction, we can have a complete sight: on one side, we can check the status of the refrigerant entering the recovery unit (refrigerant that comes from the system) and on the other side we can check it after recycling by means of an **EASYREC-R**.



PREVENTIVE CHECK ON REFRIGERANT BOTTLES

SPY-CHECK-HVAC can also be connected simply to the refrigerant bottle, thanks to the bottle adapter, supplied with it and thus allows a visual diagnosis of the refrigerant coming out of the bottle.

The device is also particularly suitable for checking the refrigerant mixtures containing R1234yf through a small sampling. Due to the presence of polluted R1234yf, these mixtures can sometimes react with air and create polymerization phenomena once out of the bottle; this can cause serious damage to the HVAC system and to the equipment used.



CHECK OF THE HEALTH OF THE HVAC SYSTEM (WITH "TOTAL VERSION")

SPY-TOTAL-CHECK is the complete version, with two hoses and an extra element that turns the female swivel connection into a second male connection, when needed.

Through these additional elements, **SPY-TOTAL-CHECK** can also be connected to the high pressure and low pressure connections of the HVAC system and check its state of "health" directly.

The oil/refrigerant miscibility, the oil quality and the possible presence of contaminated water and particles can be visually checked so that appropriate action can be taken subsequently.





FLUSHING

• Flushing units and sets 24-30

FLUSHING UNITS

NEW

FOR ADDITIONAL TANK



FLUSH2-PLUS

Flushing station

FLUSH2-PLUS allows the flushing of any refrigeration circuit, even of large dimensions (integrated 10 L tank with possible extra tank connection).

- Increased flushing efficiency thanks to the possibility of cycle reversal.
- Indispensable for repairs and retrofit of refrigeration circuits in complete safety.
- Removal of all solid residues caused by compressor or filter breakage.
- Complete removal of oil residues from HVAC systems.

To be used with non-flammable SUPER-FLUSH flushing fluid.

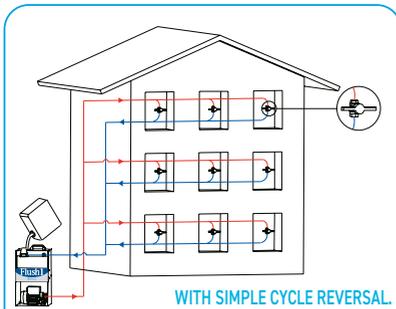
Unit equipped with:

- Pump, specially designed for flushing, with PTFE mechanical seal and gaskets.
- Integrated 10 L tank and connection for additional tank.
- Mechanical filter on the suction side.
- Flexible hoses with interchangeable connections (1/4"SAE, 3/8"SAE and 1/2"SAE).
- Connection for external nitrogen bottle.

When combined with the KIT-2-DRY, FLUSH2-PLUS simplifies the flushing process. The kit includes connection hoses and a pre-calibrated pressure regulator to directly connect a nitrogen source or a BN2-TPED cartridge (not included in the kit). Nitrogen regulator outlet pressure: 0.50 MPa.

Ref	Code	Model
A	13005087001	FLUSH2-PLUS-HVAC
B	13005086	KIT-2-DRY

Ref	Code	Dimensions	Weight
A	13005087001	300 x 220 x 550 mm	13 kg
B	13005086	210 x 130 x 80 mm	0,7 kg



TECHNICAL FEATURES

Pump flow rate	26 l/min
Pump max. pressure	0,45 MPa
Tank	10 L
Pump motor power	0,6 kW
Power supply	230-240/1/50-60 Hz



Spare parts and accessories

Code	Model	Description	Min. Qty
11001060	BN2/1-TPED	Nitrogen bottle 950 cc	12
14015044	F1/2-FILT	Complete filter	-
14015045	F1/2-CART	Mechanical filter	-
02041003	F1-PUMP	Pump for FLUSH2	-

FLUSH-HP

Flushing station for large volume circuits

- Ideal for large-capacity HVAC systems and refrigeration units (30 L integrated tank).
- Indispensable for repairs and retrofit of refrigeration circuits in complete safety.
- Removal of all solid residues caused by compressor or filter breakage and removal of oil residues.

To be used with non-flammable SUPER-FLUSH flushing fluid.

Unit equipped with:

- Specially designed pump with PTFE mechanical seal and fittings.
- 30 liters capacity tank.
- Inspectionable mechanical filter.
- 2 flexible hoses 5m with 1/2" G F connections.
- Connection for external nitrogen bottle.
- Valves with PTFE seals.

**HIGH CAPACITY
30 L TANK**



Code	Model	Dimensions	Weight
13005044	FLUSH-HP	580 x 450 x 1060 mm	22 kg

TECHNICAL FEATURES

Pump flow rate	5l/min
Pump max. pressure	0,83 MPa
Pump motor power	1,20 kW
Tank	30 L
Power supply	230-240/1/50-60 Hz



Spare parts and accessories

Code	Model	Description
02041006	BI-PUMP	Pump for FLUSH-HP
14015034	BI-FILT	Mechanical filter

SUPER-FLUSH

Flushing fluid

Non-flammable flushing fluid in 20kg or 6kg cans.

Compatible with metals usually used in HVAC systems and with most plastic material. Does not leave any residue.

Suitable for use with pressurized systems (A/CF-P-H), pneumatic systems (FFI-CLIMA-FLUSH and CLIMA-FLUSH-HP), and ideal for use with forced-circulation flushing stations (FLUSH2-PLUS and FLUSH-HP).

Ref	Code	Model	Description	Min. Qty
A	13005048	SUPER-FLUSH/20	Flushing fluid 20 kg	-
B	13005030	SUPER-FLUSH/6	Flushing fluid 6 kg	4



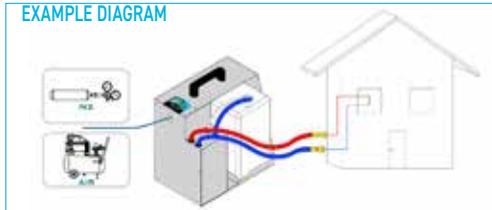
A

B

FLUSHING REFRIGERATION CIRCUITS



EXAMPLE DIAGRAM



FFI CLIMA-FLUSH

Pneumatic flushing station

FFI-CLIMA-FLUSH+HVAC is the new pneumatic **FLUSHING** and **FLUXING** station for HVAC systems, that can operate with **FFI flammable fluid** and with **SUPER-FLUSH**.

The **efficiency** given by the circulation of the fluid in the system is enhanced by the **pulsating action**, while the **dry** mode allows to perform the final flushing of the circuit.

The station allows a **clean work** in a **simple** way by switching from flushing to fluxing via a single diverter valve.

The pneumatic station can be supplied in a **flexible** way, either via the compressed air line or via a nitrogen kit.

The flushing fluid can be introduced into the removable tank or sucked directly from the fluid container, thanks to the self-priming pump.

Main functions:

- Compatible with FFI flammable fluid.
- Pulsating flow rate which, combined with the degreasing/ detergent action of the washing fluid, offers a higher working efficiency.
- Very easy to use thanks to a single diverter valve: flushing or fluxing can be selected with a single action.
- Built-in removable tank (5 L).
- Easy to maintain filter included.
- The fluid is not overheated by the pump, thus maintains its characteristics.
- Can be used either with nitrogen kit or compressed air.
- Flexible hoses of 1500mm.

TECHNICAL FEATURES

Rate	7 l/min
Supply	Nitrogen kit * or compressed air (max 8 bar)
Suggested flushing fluids	FFI, SUPER-FLUSH
Hoses	2 x 1500 mm
Pneumatic connection	Quick coupler - Italy (for compressed air) / 1/4"SAE M (for nitrogen kit)
HVAC connections kit included	1/4"SAE, 3/8"SAE and 1/2"SAE

* With the BN2/I-TPED 1 lt nitrogen cartridge several single-split can be flushed

Code	Model	Description
13005077001	FFI-CLIMA-FLUSH+HVAC	HVAC pneumatic station

Code	Dimensions	Weight
13005077001	310 x 295 x 300 mm	3,5 kg



Spare parts and accessories

Code	Model	Description
14015040	FFI-FILT	Replacement filter for FFI-CLIMA



FFI

Flushing fluid

Easy evaporation flushing fluid, for HVAC-R systems, in 1 liter cans. Does not leave any residue.

Usable only with pressure systems (A/CF-P-H) and pneumatic units (FFI-CLIMA-FLUSH and CLIMA-FLUSH-HP).

Code	Model	Min. Qty	Pack Dimensions	Pack weight
13005006	FFI	12	350 x 270 x 250 mm	10,5 kg

CLIMA-FLUSH HP-HVAC

Pneumatic flushing station for large-volume refrigeration circuits

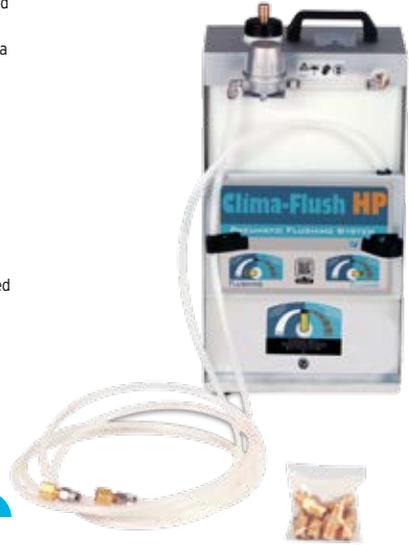
CLIMA-FLUSH-HP-HVAC is a high-capacity pneumatic washing and flushing unit for HVAC systems, designed to operate with both flammable FFI flushing fluid and SUPER-FLUSH.

The effectiveness provided by fluid circulation within the system is enhanced by a pulsating action, while the dry mode allows the final flushing of the circuit.

The station enables a clean and simple operation, switching from washing to flushing through a single diverter valve at new line. Using the same pump, both filling and draining of the flushing fluid can be conveniently managed directly from the respective container.

Main features:

- Compatible with flammable FFI flushing fluid.
- Pulsating flow combined with the degreasing/detergent action of the flushing fluid for superior cleaning performance.
- Easy to use thanks to a single diverter valve: washing or flushing can be selected with one simple action.
- 10 L tank.
- Easy to maintain filter included.
- The fluid is not overheated by the pump, preserving its characteristics.
- Operates without electrical power.
- 2500 mm flexible hoses.
- Lightweight and easy to transport.



Code	Model	Description
13005082001	CLIMA-FLUSH-HP-HVAC	HP pneumatic flushing station

Code	Dimensions	Weight
13005082001	300 x 220 x 550 mm	10 kg

TECHNICAL FEATURES

Flow rate	20 l/min
Power supply	Compressed air (max. 8 bar)
Recommended flushing fluids	FFI, Super-Flush
Hoses	2 x 2500 mm
Pneumatic connection	Italian quick coupling 1/4" SAE M
HVAC connection kit included	1/4" SAE, 3/8" SAE and 1/2" SAE



Spare parts and accessories

Code	Model	Description
14015044	F1/2-FILT	Complete filter
14015045	F1/2-CART	Mechanical filter cartridge

SUPER-FLUSH

Flushing fluid

Non-flammable flushing fluid in 20kg or 6kg cans.

Compatible with metals usually used in HVAC systems and with most plastic material. Does not leave any residue.

Suitable for use with pressurized systems (A/CF-P-H), pneumatic systems (FFI-CLIMA-FLUSH and CLIMA-FLUSH-HP), and ideal for use with forced-circulation flushing stations (FLUSH2-PLUS and FLUSH-HP).

Ref	Code	Model	Description	Min. Qty
A	13005048	SUPER-FLUSH/20	Flushing fluid 20 kg	-
B	13005030	SUPER-FLUSH/6	Flushing fluid 6 kg	4



FLUSHING SET

A/CF-P-H

Flushing set

It allows to remove totally impurities and oils by injecting the flushing fluid inside the system in both directions alternatively. It must be used combined with a cylinder and a nitrogen professional regulator with pressure between 0,5 - 0,7 MPa.

Properties:

- Total removal of metal fragments, impurities and oils.
- Does not leave any residue.
- Very easy to use.
- Economic.

To be used with FF1 or SUPER-FLUSH flushing fluids.

Complete set in solid box containing:

- Fluid injection system (1 L), with pressure gauge, hook and valve for nitrogen connection.
- 5 L tank for collection of used fluid.
- Flexible hose for the connecting the injection system to the HVAC system.
- Flexible hose for connecting the HVAC system to the waste fluid collection tank.
- Kit of fittings for connection 1/4 "SAE, 3/8" SAE, 1/2 "SAE.



Code	Model	Dimensions	Weight
13005007001	A/CF-P-H	550 x 330 x 360 mm	4,3 kg



FF1

Flushing fluid

Easy evaporation flushing fluid, for HVAC-R systems, in 1 liter cans. Does not leave any residue.

Usable only with pressure systems (A/CF-P-H) and pneumatic units (FF1-CLIMA-FLUSH and CLIMA-FLUSH-HP).

Code	Model	Min. Qty	Pack Dimensions	Pack weight
13005006	FF1	12	350 x 270 x 250 mm	10,5 kg

F1-PASS

Kit of adapters for flushing systems

The kit is meant for the bridge connection of two refrigerant hoses, allowing to perform the cooling system flushing.

The kit includes:

- 1 flexible hose 300 mm 1/4" SAE M x 1/4" SAE M.
- 4 adapters 1/4" SAE F x 3/8" SAE M.
- 4 adapters 1/4" SAE F x 1/2" SAE M.
- 4 adapters 1/4" SAE F x 5/8" SAE M.
- 100 copper gaskets 1/4" SAE mod. B2-4.
- 100 copper gaskets 1/2" SAE mod. B2-8..



Code	Model	Dimensions	Weight
05108042	F1-PASS	440 x 170 x 50 mm	1,5 kg

FLASH-FLUSH-FORMULA

Pressurized flushing fluid

Ready for use flushing fluid pressurized with nitrogen at 40bar. FLASH-FLUSH/FORMULA enables to perform circuit flushing and fluxing in 4 easy operations.

FLASH-FLUSH/FORMULA must be completed with a connecting kit, KIT-FLASH-HVAC.

KIT-FLASH-HVAC

The kit, allowing the simple connection of flash-flush-formula to the circuit, includes:

- 1 flexible hose 900 mm mod. V/GYSS/4-4/36.
- 1 adapter 1/4" SAE x 1/4" SAE.
- 1 adapter 1/4" SAE x 3/8" SAE.
- 1 adapter 1/4" SAE x 1/2" SAE.

Ref	Code	Model	Description	Min. Qty
A	13005050	FLASH-FLUSH-FORMULA	Pressurized flushing fluid	6
B	13005043002	KIT-FLASH-HVAC	Connecting kit for HVAC system	-

Ref	Code	Dimensions.	Weight
A	13005050	280 x 200 x 300 mm	9,6 kg
B	13005043002	240 x 145 x 40 mm	0,4 kg



DOES NOT CONTAIN FLAMMABLE PRODUCTS!
DOES NOT CONTAIN TOXIC SUBSTANCES!
DOES NOT CONTAIN HARMFUL PRODUCTS!
POSSIBLE RESIDUES ARE COMPATIBLE WITH THE FLUIDS INSIDE THE SYSTEM



SAFE CONNECTION? CHOOSE THE WIGAM SOLUTION



Connecting



Fastening



Turning upside down



Flushing and fluxing

FLUSHING UNITS



A



B



C



D

ETO-4

Electric gear pump for oil transfer and systems flushing

- Suitable for all the common refrigeration oils.
- Suitable for the oil charge into HVAC systems.
- Suitable for oil removal from HVAC systems.
- Complete with suction hose and a pressure hose with adapters.
- Suitable for the flushing of the systems using FORMULA fluid and the connecting kit KIT-ETO-HVAC.

KIT-ETO-HVAC

The KIT-ETO-HVAC is the completion and connection kit that transforms the ETO unit into a flushing system in combination with the FORMULA fluid.

The kit includes:

- 1 piping of 4 m with filter.
- 1 RG180/6-4 swivel valve (3/8 SAE F x 1/4 SAE M).
- 5 L tank.
- Adapters kit for HVAC system.

Ref	Code	Model	Description
A	02041028	ETO-4	Electric pump
B	13006067	KIT-ETO-HVAC	Connection kit
C	13005054	FORMULA/5	Flushing fluid 5 L
D	14029016	BP	Plastic case

Ref	Code	Dimensions	Weight
A	02041028	290 x 200 x 275 mm	7 kg
B	13006067	267 x 150 x 250 mm	2 kg
C	13005054	260 x 165 x 145 mm	5,5 kg
D	14029016	520 x 290 x 340 mm	1,85 kg

TECHNICAL FEATURES

Rate	4 L/min
Power	180W with thermal-protector
Max pressure	20 bar
Voltage	230 V - 50/60 Hz
Self priming	Yes
Connection	1/4"SAE



**DOES NOT CONTAIN FLAMMABLE PRODUCTS!
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POSSIBLE RESIDUES ARE COMPATIBLE
WITH THE FLUIDS INSIDE THE SYSTEM**

WASHING AND SANIFICATION OF INDOOR AND OUTDOOR UNITS

- Indoor units sanification..... 32-35
- Washing and protection
of outdoor units 36-37
- Telescopic lift..... 38

INDOOR UNITS SANIFICATION

SIMPLE AND CLEAN SOLUTION



FLEXIBLE: SELF-PRIMING OR FROM ELECTRICITY MAIN



STRONG COVERS FOR MULTIPLE INTERVENTIONS



LANCE AND HOSES ALL IN THE EVA-PUMP COMPARTMENT



EVA-WASH-KIT

Kit for flushing of indoor air-conditioning units

In Europe there is a huge park of indoor units (split, fancoil), from the cleaning and sanitizing service of which the quality of the air we breathe in our homes and in many businesses such as offices, hospitality and health facilities depends significantly.

In the guidelines against legionellosis it is highlighted how we must:

- Clean and disinfect the condensate collection tanks.
- Clean and disinfect the finned surfaces with the removal of organic and inorganic dirt.
- Clean and periodically replace the filters in compliance with the manufacturer's specifications.

A professional service of cleaning and sanitizing of the internal units (split / fancoil) allows the customer to breathe healthy air, save money and give longevity to the system.

EVA-WASH-KIT is the "simple and clean" solution for washing and sanitizing internal units (split and fancoil) which allows to:

- Cover the evaporator of the unit to be treated with the EVA-SPLIT protection cover (2pcs included).
- Treat the evaporator, the filters and the condensate collection tank with the handy spray pump (2 L) and the specific detergent (included).
- Finally, wash the evaporator and plastic parts using the professional cleaning pump.

Standard equipment:

- EVA-PUMP Professional cleaning pump.
- EVA-SPLIT cleaning cover for split units (2 pcs).
- PSP2 Sprinkling pump.
- EVA-CLEANER Detergent 5 kg.

Code	Model	Description	Dimensions	Weight
13005065	EVA-WASH-KIT	Kit for flushing	520 x 290 x 340 mm	12 kg

TECHNICAL FEATURES

Flow rate	4 L/min
Power	80W
Working pressure	0.7 - 1MPa
Power supply	220V-50/60Hz
Weight	5 kg



Spare parts and accessories

Code	Description
13006069	Kit 2 hoses (suction and delivery)
13006070	Replacement gun



EVA-PUMP

Cleaning pump for indoor air-conditioning units

Code	Model	Dimensions	Weight
13005062	EVA-PUMP	278 x 180 x 280 mm	5 kg

TECHNICAL FEATURES

Flow rate	4 l/min
Power	80W
Working pressure	0.7 ÷ 1MPa
Power supply	220V-50/60Hz
Suction hose length	1,5 m



EVA-CASSETTE - EVA-SPLIT

Cleaning covers for indoor units

Ref	Code	Model	Description
A	13005064	EVA-CASSETTE	Cleaning cover for ceiling box units
B	13005063	EVA-SPLIT	Cleaning cover for wall-mounted splits unit recommended for indoor units up to 4.2 kW (14,000 BTU/h)
B	13005083	EVA-SPLIT/L	Cleaning cover for wall-mounted splits unit recommended for indoor units up to 5kW (17000btu/h)



EVA-CLEANER

Concentrated liquid detergent for indoor units

EVA-CLEANER is suitable for the cleaning and the sanification of the finned batteries and filters of the indoor units of the HVAC systems. In addition to its detergent action, it has also a disinfectant and deodorizing action. To be diluted in water (from 25 to 30%).

Code	Model	Capacity	Dimensions	Weight
13005057	EVA-CLEANER	5 kg	370 x 170 x 150 mm	5,5 kg



PSP2

Professional sprinkling pump

2 litre high-density polyethylene tank.

Recommended detergent EVA-CLEANER.

Code	Model	Dimensions	Weight
13005061	PSP2	310 x 220 x 130 mm	0,8 kg



DETERGENTS - SANITIZERS



EFC

Detergent for evaporators and unit heaters

- Spray packaging.
- Crumbles dirt.
- Sticks even to vertical surfaces.
- Removes bad smells.

Code	Model	Min. Qty	Capacity	Dimensions	Weight
13005018	EFC	12	650 ml	270 x 210 x 250 mm	7,4 kg



CLEAN-AIR

Sanitizer for air conditioning systems

- Spray packaging.
- Removes bad smells.
- Sanitizes quickly and safely.

Code	Model	Min. Qty	Capacity	Dimensions	Weight
13005014	CLEAN-AIR	12	400 ml	270 x 210 x 210 mm	5,1 kg



GREEN TABS

Conditioner cleaning treatment

- Helps eliminate odors.
- Prevents water damage.
- Non corrosive and non toxic.
- Easy to install.
- Contents 200 tablets.

Code	Model	Min. Qty	Dimensions	Weight
12099005	GREEN TABS	12	230 x 310 x 160 mm	5,9 kg

LOVAIR-PRO

Ozone (O₃) generator

LOVAIR-PRO has been designed to support the treatment of passenger compartments and environments thanks to the reactivity of ozone (O₃) in oxidizing the vast majority of organic and inorganic particles, and the consequent odors, even in difficult places to reach.

LOVAIR-PRO advantages:

- Take advantage of a natural principle without the need for chemicals consumables.
- Effective in critical points that would otherwise be unreachable
- Widespread action thanks to the ability of ozone to penetrate tissues, ...
- Automatic operation.
- Intervention times selectable according to areas and treatment
- Timer up to 180 min .
- Double power supply connection 220V-50/60Hz and 12DVC.
- More than 10, 000 half-hour treatments without using consumables.

How does OZONE works?

Ozone is a molecule of three oxygen atoms bound together (O₃), with negative electric. In nature, ozone is produced by some physical reactions. The most well-known example is of course the ozone layer, where ozone is produced from the sun's UV rays. But ozone is also produced at thunderstorms and waterfalls. The special "fresh and clean spring rain" smell is a result of nature-produced ozone. Ozone derives from the Greek word "ozein" which means "to smell".

After fluorine, ozone is the strongest oxidant found in nature. The ozone operates according to the principle of oxidation. When the static ozone molecule (O₃) contacts with something "able to oxidize", the charge of the ozone molecule will directly flow over. This is because ozone is very unstable and tends to turn back to its original form (O₂).

Code	Model	Dimensions	Weight
09019008	LOVAIR PRO	200 x 150 x 150 mm	2,5 kg

TECHNICAL FEATURES

Ozone production	4.000 mg/h
Power input	40W
Power supply	220V-50/60Hz e 12DVC
Dimensions	20 x 15 x 15 cm
Weight	2,5 kg



Spare parts and accessories

Code	Description
09019004	Power supply 230V-50Hz
09019005	Adapter for lighter socket



i Suggested time in min* for rooms based on square meters**

Up to 15 m ²	15 - 30 min.
Up to 30 m ²	30 - 60 min.
Up to 50 m ²	60 - 90 min.
Up to 65 m ²	90 - 120 min.
Up to 80 m ²	120 - 180 min.

* Read the manual carefully before using the equipment.
** Based on height 3 m.

i Suggested time in min* for vehicle

Small / Medium cars	15 - 30 min.
Sedan / SW / SUV	30 - 45 min.
Camper / Roulotte / Minivan	45 - 60 min.
Minibus	60 - 90 min.
Autobus / Train	90 - 180 min.

* Read the manual carefully before using the equipment.

WASHING AND PROTECTION OF OUTDOOR UNITS



COIL-PUMP-FLEX

Compact high-pressure cleaner with adjustable pressure 10-40 bar

The **COIL-PUMP-FLEX** high-pressure cleaner, especially designed for refrigeration specialists and installers who want to offer a professional maintenance on exchangers and units, features:

- **EXTREME FLEXIBILITY**, thanks to its regulator that can adapt the pressure to any need between 10 and 40 bar, and the possibility of direct supply from the water mains or from a tank (as it is self-priming).
- Great **COMPACTNESS**, thanks to its small size, low weight, ergonomics and the possibility of storing all accessories in their respective compartments and in the handy elastic side pockets.
- **EASE OF USE** thanks to the accessories that can be easily connected via high-performance quick couplers. In just a few seconds, the gun can be connected to the extensions and to the adjustable nozzle and get ready for the best cleaning of the units, and therefore of the exchangers, from the inside of the condenser to the outside.

Main accessories supplied:

- High-pressure delivery hose (7 mt) with quick couplers
- Gun with quick coupler for nozzles and lances.
- 2 extension lances (40 cm).
- Suction hose (2 mt) with adapters
- Regulator with pressure gauge to check the working pressure
- Cleaner Kit for the suction of the cleaning liquid (1:3) and specific tip.

Ref	Code	Model	Dimensions	Weight
A	13005073	COIL-PUMP-FLEX	400 x 300 x 320 mm	8 kg
B	13006076	CLEANER-KIT	120 x 60 x 60 mm	0,5 kg

TECHNICAL FEATURES

Power supply	220V~/50-60Hz
Working pressure	1-4MPa / 10-40bar
Flow rate	6 l/min
Power	550W

COIL-CLEANER

Concentrated liquid detergent for outdoor units

Concentrated degreasing detergent for the cleaning of different components of the outdoor units (finned exchangers, air condensers, convectors, etc...) To be diluted in water (from 10% to 20%).



Code	Model	Min. Qty	Capacity
13005015	COIL-CLEANER	4 pz	5kg
Code	Dimensions	Weight Pack	
13005015	370 x 170 x 150 mm	5,5 kg	

PSP6

Professional sprinkling pump

5 liter high density polyethylene tank with UV protection and safety valve.
Pump with handle and lance support.

1,20 m PVC hose and fibre-filled polypropylene lance with swivel nozzle.

Recommended detergent: COIL-CLEANER.



Code	Model	Capacity	Dimensions	Weight
13005013	PSP6	5l	610 x 200 x 200 mm	2 kg

TECHNICAL FEATURES

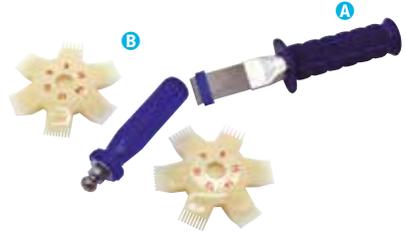
Max pressure	3 bar (0,3 MPa)
Safety valve	3.5 bar (0,35 MPa)

PA11-PA6

Fin comb

Tool suitable for the cleaning and aligning of fins of any type of finned exchanger.

Ref	Code	Model	Dimensions	Weight
A	08008051	PA11	280 x 100 x 40 mm	0,14 kg
B	08008007	PA6	130 x 160 x 40 mm	0,10 kg



HOT-BLOWER

Hot blower

Suitable to dry finned batteries (condensers-evaporators).

Ideal to warm up the refrigerant during the transfer operations (from bottle to bottle and during recovery).



Code	Model	Dimensions	Weight
14019019	HOT-BLOWER	195 x 170 x 190 mm	1,6 kg

TECHNICAL FEATURES

Power supply	230V-50/60Hz
Power	550 W
Wind rate	2,7 m³/min
Max. temperature	45 °C
Thermal cut-out	Si
Power switch	On/Off with lock button
Power cable length	1,8 mt

CLIMA-CAP

Protective covers for external units

Optimized dimensions for the main R32 units.

Code	Model	Dimensions	Suitable for
16010010	CLIMA-CAP-M/D	550 x 860 x 340 mm	Mono 20-35 / Multi 2-R32
16010011	CLIMA-CAP-MUL	735 x 980 x 400 mm	Mono 42-60 / Multi 3-4-5-R32



TELESCOPIC LIFT

WLC710-PLAT

Telescopic lift with platform

Mechanical telescopic lifting unit, lightweight and compact, specifically designed for easy transport when folded. The WLC710-PLAT is certified for loads up to 100 kg at a maximum height of 4 m.

• **Self-braking winch**

The load is lifted by means of a self-braking manual winch, which stops the load at the desired height (when the handle is released, the winch automatically locks the load in position).

• **Safety locking system**

Manufactured using advanced technologies to ensure maximum safety and strength. It offers robustness, maneuverability and lightness.

• **European production**

Subject to strict quality controls, compliant with German standards and European CE directives.

• Ø 4 mm cable (180 kg/mm²) DIN 3060

• Material: Steel S 235 JRH - DIN-10219 - 1:2006

• Compliant with DIN 15560-27; BGV-D8; DIN 1055; DIN 18800; 2006/42/CE.



Optional wheel kit



Telescopic supports

Code	Model	Description
16012001	WLC710-PLAT	Telescopic lift with platform
16012002	WIGR-2710	3-wheel kit

TECHNICAL FEATURES

Maximum height	4,00 m
Maximum load	100 kg
Folded height	1,65 m
Net weight	20,5 kg
Folded dimensions	260x330x1650 mm
Material	Steel

PRESSURIZATION TESTING SYSTEMS

- Pressurization with Nitrogen 40-42
- Nitrogen cartridges and cylinders 40
- Pressurization with Azoidro (N₂-H₂) 41-42
- Azoidro (N₂-H₂) cartridges and cylinders 41
- Spare parts and accessories 43

PRESSURIZATION - NITROGEN TESTING



DUAL INTEGRATED CONNECTION

NEW DIAL WITH R32"



SPARE PARTS AND ACCESSORIES P. 43

K-AZ200-50/BN2

Nitrogen kit

Suitable for:

- Testing for leaks in pressure of HVAC systems.
- Flushing of HVAC systems.
- Fluxing during soldering in HVAC systems.
- Pressure switches and gauges calibration.

Kit includes:

- AZ200-50 Nitrogen regulator with dual integrated connection for cartridges and bottles.
- Ø80 gauge, class 1.0 with defined sectors, positioning indicator and calibration screw.
- Flexible hose 1/4" SAE , 900 mm + 200 mm.
- Nitrogen bottle 950 cc- 110 bar - TPED.
- 1 adapter RG180/5-4 (5/16" SAE F x 1/4" SAE M).
- Sturdy plastic carrying case.

Code	Model	Country	Cylinder connection	Standard reference	Cartridge connection
13005017001	K-AZ200-50/BN2	IT	W 21.7 x 1/14" M	UN 11144-5	M10x1
13005017005	K-AZ200-50/BN2-D	F-B-P-E	Ø 21.7 x 1.814 F	NF E 29-650/C	M10x1
13005017008	K-AZ200-50/BN2-E	GB	G 5/8" M	BS 341 nr.3	-
13005017009	K-AZ200-50/BN2-C	D	W 24.32 x 1/14" F	DIN 477 nr.I0	M10x1

TECHNICAL FEATURES

Regulator inlet pressure	20 MPa
Max output pressure	4,8 MPa
Connections	1/4" SAE
Dimensions	360 x 320 x 120 mm
Weight	4,5 kg
Comply to	CE n. 1516 2007



Regulation (EC) No. 1516/2007

ARTICLE 8 - REPAIR OF LEAKAGE

1. The operator shall ensure that the repair is carried out by personnel certified to undertake that specific activity. Prior to repair, a pump-down or recovery shall be carried out, where necessary.
2. The operator shall ensure that a leakage test with Oxygen Free Nitrogen (OFN) or another suitable pressure testing and drying gas is carried out where necessary, followed by evacuation, recharge and leakage test. Prior to pressure testing with Oxygen Free Nitrogen (OFN) or another suitable pressure testing gas, fluorinated greenhouse gases shall be recovered from the whole application where necessary.



Calibration

Code	Model	Description
09053011		Calibration report ref. Accredia for control gauge
13005017016	K-AZ200-50/BN2/RT	Nitrogen kit with calibration report

NITROGEN CARTRIDGES AND CYLINDERS

Cartridges and cylinders containing Nitrogen.

Ref	Code	Model	Cap.
A	11001060	BN2/I-TPED	Disposable 950 cc
B	11003011	BAZ50/1	Rechargeable 5 L

Ref	Code	Min. Qty	Dimensione	Weight
A	11001060	12	320 x 250 x 330 mm	15,50 kg
B	11003011	-	550 x 150 x 150 mm	8,80 kg

SPRAY LEAK DETECTOR

Code	Model	Capacity	Min. Qty
09001080	GAS CONTROL	400 ml	10

Code	Dimensione	Weight
09001080	340 x 140 x 220 mm	4,8 Kg



TOTAL-TEST-HVAC

Leak detection kit with AZOIDRO (N2-H2)

It enables to detect and locate leaks in HVAC system in compliance with Regulation (EC) n.1516/2007.

The pressure reducer and the control pressure gauge in class 1 enable to pressurize the system to the necessary value with the AZOIDRO mixture; the system can then be checked by means of the leak detector VOYAGER.

VOYAGER leak detector with heated diode makes this kit the total leak detection solution. In fact, VOYAGER detects AZOIDRO mixture (N2-H2) and also all halogenated HFC, CFC, HCFC refrigerants and their mixtures and HC hydrocarbons (such as R290-R600a).

Kit includes:

- AZ200-50 pressure regulator with dual integrated connection for cartridges and bottles.
- Control gauge Ø80, class 1 with positioning indicator and calibration screw.
- Flexible hose 1/4" SAE, 1500 mm + 200 mm.
- Swivel adapter RG180/5-4 (5/16" SAE F x 1/4" SAE M).
- AZOIDRO cartridge 1 l - 110 bar.
- VOYAGER leak detector.
- Sturdy plastic carrying case.

Code	Model	Country	Cylinder connection	Standard reference	Cartridge connection
13005072005	TOTAL-TEST-HVAC	IT	W 21.7 x 1/14" M	UN 11144-5	M10x1
13005072006	TOTAL-TEST-HVAC-D	F-B-P-E	Ø21.7 x 1.814F	NF E 29-650/C	M10x1
13005072007	TOTAL-TEST-HVAC-C	D	W 24.32 x 1/14" F	DIN 477 nr.10	M10x1
13005072008	TOTAL-TEST-HVAC-E	GB	G 5/8" M	BS 341 nr.3	

TECHNICAL FEATURES

Regulator inlet pressure	20 MPa
Max output pressure	4,8 MPa
Connections	1/4" SAE
Dimensions	360 x 320 x 120 mm
Weight	5,0 kg



Regolamento (CE) n.1516/2007

ARTICLE 8 - REPAIR OF LEAKAGE

1. The operator shall ensure that the repair is carried out by personnel certified to undertake that specific activity. Prior to repair, a pump-down or recovery shall be carried out, where necessary.
2. The operator shall ensure that a leakage test with Oxygen Free Nitrogen (OFN) or another suitable pressure testing and drying gas is carried out where necessary, followed by evacuation, recharge and leakage test. Prior to pressure testing with Oxygen Free Nitrogen (OFN) or another suitable pressure testing gas, fluorinated greenhouse gases shall be recovered from the whole application where necessary.

AZOIDRO (N2-H2) CARTRIDGES AND CYLINDERS

Bottle containing 95% Nitrogen and 5% Hydrogen which allows to pressurize the system and then to find the leak source by means of VOYAGER leak detectors.

Ref	Code	Model	Capacity	Min. Qty	Dimensions	Weight
A	11001112	AZOIDRO Disposable	1 L	12	320 x 250 x 330 mm	15,5 kg
B	11003020	AZOIDRO/5 Rechargeable	5 L	-	550 x 150 x 150 mm	8,80 kg



PRESSURIZATION - NITROGEN AND AZIDRO TESTING

NITROGEN
N₂

DUAL INTEGRATED
CONNECTION

"NEW DIAL WITH R32"

SPARE
PARTS AND
ACCESSORIES
P. 43



K-AZ200-50/BAZ50

Nitrogen kit 5 liters

Suitable for:

- Testing for leaks in pressure of HVAC systems.
- Flushing of HVAC systems.
- Fluxing during soldering in HVAC systems.
- Pressure switches and gauges calibration.

Kit includes:

- AZ200-50 Nitrogen regulator with dual integrated connection for cartridges and bottles.
- Ø80 gauge, class 1.0 with defined sectors, positioning indicator and calibration screw.
- Flexible hose 1/4" SAE , 2500 mm + 220 mm.
- Nitrogen bottle 5 L - TPED - full (20 MPa).
- Adapter Rg180/5-4 (5/16" SAE Fx 1/4" SAE M).

Code	Model	Country	Cylinder connection	Standard reference	Cartridge connection
13005022001	K-AZ200-50/BAZ50	IT	W 21.7 x 1/14" M	UN 11144-5	M10x1

TECHNICAL FEATURES

Regulator inlet pressure	20 MPa
Max output pressure	4,8 MPa
Connections	1/4" SAE
Dimensions	700 x 430 x 280 mm
Weight	14,6 kg

AZIDRO
N₂H₂

"NEW DIAL WITH N₂-H₂"

SPARE
PARTS AND
ACCESSORIES
P. 43



K-AZ200-50/AZIDRO5

Azidro kit 5 liters

It enables to detect and locate leaks in HVAC system in compliance with Regulation (EC) n.1516/2007. The pressure reducer and the control pressure gauge in class 1 enable to pressurize the system to the necessary value with the AZIDRO mixture; the system can then be checked by means of VOYAGER leak detectors (not included in the kit).

Kit includes:

- Pressure regulator serie AZ200-50 with dual integrated connection for cartridges and bottles.
- Ø80 gauge, class 1.0 with defined sectors, positioning indicator and calibration screw.
- Flexible hose 1/4" SAE , 2500 mm + 220 mm.
- Azidro bottle 5 L - TPED - full (20 MPa).
- Adapter RG180/5-4 (5/16" SAE Fx 1/4" SAE M).

Code	Model	Country	Cylinder connection	Standard reference	Cartridge connection
13005068	K-AZ200-50/AZIDRO5	IT	W 21.7 x 1/14" M	UN 11144-5	M10x1

TECHNICAL FEATURES

Regulator inlet pressure	20 MPa
Max output pressure	4,8 MPa
Connections	1/4" SAE
Dimensions	700 x 430 x 280 mm
Weight	14,6 kg

AZ200

“HEAVY DUTY” nitrogen regulator for cartridges and cylinders

Heavy duty professional nitrogen regulator with dual integrated connection for cartridges and cylinders (no external adapter required) and “High Performance” safety valve.

DUAL INTEGRATED CONNECTION

Code	Model	Country	Cylinder connection	Standard reference	Cartridge connection
10002017	AZ200-50	IT	W 21.7 x 1/14" M	UN 11144-5	M10x1
10002019	AZ200-50/D	F-B-P-E	Ø21.7 x 1.814F	NF E 29-650/C	M10x1
10002018	AZ200-50/E	GB	G 5/8" M	BS 341 nr.3	-
10002020	AZ200-50/C	D	W 24.32 x 1/14" F	DIN 477 nr.10	M10x1



TECHNICAL FEATURES

Regulator inlet pressure	20 MPa	Dimensions	380 x 200 x 130 mm
Max output pressure	4,8 MPa	Weight	1,8 kg
Connections	1/4" SAE		

WN2-60

Nitrogen regulator

Regulator with connection for refillable Nitrogen or AZOIDRO cylinders.

Code	Model	Country	Cylinder connection	Standard reference
10002035	WN2-60	IT	W 21.7 x 1/14" M	UN 11144-5
10002037	WN2-60/D	F-B-P-E	Ø21.7 x 1.814F	NF E 29-650/C
10002036	WN2-60/E	GB	G 5/8" M	BS 341 nr.3
10002038	WN2-60/C	D	W 24.32 x 1/14" F	DIN 477 nr.10



TECHNICAL FEATURES

Regulator inlet pressure	20 MPa	Dimensions	220 x 180 x 110 mm
Max output pressure	4,8 MPa	Weight	1,4 kg
Connections	1/4" SAE		



Spare parts and accessories



Ref	Code	Model	Description
A	07121016	PF80/53RI/TEST	Ø 80 test gauge, class 1,0 with defined sectors, positioning indicator and calibration screw
B	05015003	V/GYSA/1M-4/6Y/PF80/N2-K1	Flexible hose 1/4" SAE with Ø80 test gauge, class 1.0 with connection 1/4" SAE 45°
B	05015010	V/GYSA/1M-5/6Y/PF80/N2-K1	Flexible hose 1/4" SAE with Ø80 test gauge, class 1.0 with connection 5/16" SAE 45°
C	05015016	V/GYSS/1M-4/8Y/PF80/N2-K1	Flexible hose 1/4" SAE with Ø80 test gauge, class 1.0 with connection 1/4" SAE straight
C	05015017	V/GYSS/1M-5/8Y/PF80/N2-K1	Flexible hose 1/4" SAE with Ø80 test gauge, class 1.0 with connection 5/16" SAE straight
D	05015011	V/GYSS/4M-VE/Y/PF80/10/K1	Terminal for checking expansion vessel of boilers
	05059023001	RG180/5-4-WIG	Adapter 5/16" F x 1/4" M
	06071001003	GYSS/4-4/36/Y	Flexible hose 900 mm for nitrogen kit 1 L - 1/4" SAE
	06071025003	GYSS/4-4/98Y	Flexible hose 2500 mm for nitrogen kit 5 L - 1/4" SAE
	14020084001	95514K-WIG	Kit 10 gaskets for nitrogen regulator AZ200-50 and WN2-60 (cylinders connection side)
	14020083001	OR-AZ/K-WIG	Kit 10 o-ring for nitrogen regulator for AZ200-50 (cartridge connection side 950 cc)
	10010037		Replacement HP gauge-315 bar for AZ200-50 - 1/4" G
	10010038		Replacement LP gauge-100 bar for AZ200-50 - 1/4" G
	14029064	VP/B16	Plastic carrying case for 1 L nitrogen/azoidro kits



Designed and manufactured according to the most advanced criteria

46 lt/min
110 lt/min
180 lt/min
250 lt/min



A2L - R32
Atex - A3 R290
NH3 - R717

**DOUBLE STAGE
HIGH VACUUM PUMPS**

MADE IN ITALY

VACUUM - CHARGE

- Double stage high vacuum pumps..... 46-57
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- IDO digital station 54-55
- Digital manifolds 56-62
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DOUBLE STAGE HIGH VACUUM PUMPS



- Designed and produced according to the most advanced criteria.
- High reliability.
- High performance.
- Lightweight.
- Protection index IP54.
- Incombustibility (R32-R1234yf).

Their incombustibility, in order to be able to use them with R32 and R1234yf, is guaranteed by the particular manufacturing of the stator/rotor components, which prevent reaching ignition temperatures, even in the worst working conditions or in case of failure.

- With carrying handle and gas ballast valve to evacuate condensable gases (gas ballast).
- Single packaging with one bottle of mineral oil.
- E/V models are equipped with Ø80 vacuum gauge, solenoid valve to prevent air/oil from flushing back when the pump is turned off, Connections 1/4" SAE M and 2 adapters 1/4"SAE F x 3/8"SAE M e 1/4"SAE F x 5/16"SAE M.
- RS3D-EX and RS3DE/V-EX are ATEX certified and are specifically designed to work with hydrocarbons (HC) such as R290 and R600a.

SPARE PARTS AND ACCESSORIES P. 51

SUGGESTED R32



A

267 x 150 x 250 mm - 6,4 kg

SUGGESTED R32



B

267 x 150 x 250 mm - 6,9 kg

DISCOVER THE ATEX RANGE FROM P. 103



HC R600a - R290 R1270



C

390 x 230 x 350 mm - 10,5 kg

Ref	Code	Model	Swept volume	Ultimate vacuum	Power supply**	Nominal power	Protection degree	Oil charge	Connections	Solenoid valve (E) Vacuum gauge (V)
A	02002044	RS3D	46 lt/min	1x10 ⁻² mbar	220-240/1/50-60	120 W	IP54	300 cc	1/4" NPT-F	-
B	02099024	RS3DE/V	46 lt/min	1x10 ⁻² mbar	220-240/1/50-60	120 W	IP54	300 cc	1/4"-5/16"-3/8"	EV
	02002052	RS3D-EX	46 lt/min	1x10 ⁻² mbar	220-240/1/50-60	120 W	IP54	300 cc	1/4" NPT-F - 1/4" SAE	-
C	02099036	RS3DE/V-EX	46 lt/min	1x10 ⁻² mbar	220-240/1/50-60	120 W	IP54	300 cc	1/4"-5/16"-3/8"	EV

**Other voltages and frequencies, on demand.

SPARE PARTS AND ACCESSORIES P. 51

SUGGESTED R32



A

350x150x280 mm - 11,5 kg

SUGGESTED R32



B

350x150x280 mm - 12 kg

Ref	Code	Model	Swept volume	Ultimate vacuum	Power supply**	Nominal power	Protection degree	Oil charge	Connections	Solenoid valve (E) Vacuum gauge (V)
A	02002065	RS7D	110 lt/min	1x10 ⁻² mbar	220-240/1/50-60	250 W	IP54	450 cc	1/4" NPT-F	-
B	02099040	RS7DE/V	110 lt/min	1x10 ⁻² mbar	220-240/1/50-60	250 W	IP54	450 cc	1/4"-5/16"-3/8"	EV

**Other voltages and frequencies, on demand.

DOUBLE STAGE HIGH VACUUM PUMPS



- Designed and produced according to the most advanced criteria
- High reliability.
- High performance.
- Lightweight.
- Protection index IP54.
- Incombustibility (R32-R1234yf).
- Their incombustibility, in order to be able to use them with R32 and R1234yf, is guaranteed by the particular manufacturing of the stator/rotor components, which prevent reaching ignition temperatures, even in the worst working conditions or in case of failure.
- With carrying handle and gas ballast valve to evacuate condensable gases (gas ballast).
- Single packaging with one bottle of mineral oil.

- Model RS9DE/V is equipped with a ø80 vacuum gauge, a solenoid valve on the suction to prevent oil/air from flowing back when the pump is turned off, a Connections 1/4" SAE m and 2 adapters 1/4"SAE F x 3/8"SAE M and 1/4"SAE F x 5/16"SAE M.
- Model RS9DE/V-EX is specifically designed for R290 and R600a, is equipped with a vacuum gauge and a solenoid valve and complies with the ATEX directive.
- Model RS9DE-NH3 is specifically designed for ammonia systems and is equipped with dual Connections with shut-off valve.
- Model RS15DE is equipped with a solenoid valve on the suction to prevent oil/air from flowing back when the pump is turned off, a dual Connections 3/8 SAE M and 1/4"SAE M with caps and 2 adapters 1/4"SAE F 3/8"SAE M and 1/4"SAE F x 5/16"sae m.

SPARE PARTS AND ACCESSORIES P. 51

SUGGESTED R32

DISCOVER THE ATEX RANGE FROM P. 103

HC R600a-R290 R1270

Ex

NH3 R717

A

350 x 150 x 280 mm - 12,5 kg

B

350 x 150 x 280 mm - 12,5 kg

C

350 x 150 x 280 mm - 12,5 kg

Ref	Code	Model	Swept volume	Ultimate vacuum	Power supply**	Nominal power	Protection degree	Oil charge	Connections	Solenoid valve (E) Vacuum gauge (V)
A	02002029	RS9D	180 lt/min	1x10 ⁻² mbar	230/1/50-60	370 W	IP54	450 cc	1/4" NPT-F	-
	02099020	RS9DE/V	180 lt/min	1x10 ⁻² mbar	230/1/50-60	370 W	IP54	450 cc	1/4"-5/16"-3/8"	EV
	02002068	RS9D-EX	180 lt/min	1x10 ⁻² mbar	230/1/50-60	370 W	IP54	450 cc	1/4" NPT-F	-
B	02099038	RS9DE/V-EX	180 lt/min	1x10 ⁻² mbar	230/1/50-60	370 W	IP54	450 cc	1/4"-5/16"-3/8"	EV
C	02099039	RS9DE-NH3	180 lt/min	1x10 ⁻² mbar	230/1/50-60	370 W	IP54	450 cc	2x1/4"	E

**Other voltages and frequencies, on demand.

SUGGESTED R32

SUGGESTED R32

A

350 x 180 x 280 mm - 16 kg

B

350 x 180 x 280 mm - 17 kg

Ref	Code	Model	Swept volume	Ultimate vacuum	Power supply**	Nominal power	Protection degree	Oil charge	Connections	Solenoid valve (E) Vacuum gauge (V)
A	02002036	RS15D	250 lt/min	1x10 ⁻² mbar	220-240/1/50-60	550 W	IP54	400 cc	3/8" NPT F	-
B	02002037	RS15DE*	250 lt/min	1x10 ⁻² mbar	220-240/1/50-60	550 W	IP54	400 cc	1/4"-5/16"-3/8"	E

* Pump with dual Connections 3/8" and 1/4". **Other voltages and frequencies, on demand.

RECOVERY-RECYCLING
 FLUORINE-APPLICATION
 FLUORINATION
 VACUUM-CHARGE
 CO. (P. 44)
 HC (R600a-R290)
 INSTRUMENTS
 TOOLS-VALVES
 FITTINGS
 CONDENSATION
 WATER PUMPS
 WELDING
 CONSUMABLES

IPERVAC+ KIT



IPERVAC+ HIGH SPEED VACUUM KIT

The IperVac+ kit reduces the time you need for evacuation by over 50%



The IperVac+ kit, for 1/4" or 5/16" service ports, optimizes the connections of the vacuum pump to the air conditioning / refrigeration unit, and consists of:

- The EW4900 core removal tool with double connections and valve for IperVac+ hose and vacuum gauge.

EW4900 enables to remove the valve core, and then open the way to its two integrated SAE M 3/8" and 1/4" (or 5/16") connections equipped with valves. 3/8" port designed for coupling with the IperVAC hose and 1/4" port for vacuum gauge, charging hose or manifold.

- The 1500mm new IperVac+ hose, with internal diameter 10mm and 3/8" connections.

The IperVac+ hose pulls a vacuum much faster compared to standard 1/4" hoses. The IperVAC+ hose is optimal in directly connecting the vacuum pump with the EW4900 or the vacuum pump with the VAC port of the 4-way manifold.



UP TO 42 BAR

Code	Model	Description
02090009	IPERVAC-4	Kit per VUOTO per porte servizio da 1/4"
02090010	IPERVAC-5	Kit per VUOTO per porte servizio da 5/16"

Female Connections	Male Connections	Hose Length	Dimension (mm)	Weight (kg)
1/4" SAE	3/8" SAE + 1/4" SAE	1500 mm	240 x 220 x 70	0,6
5/16" SAE	3/8" SAE + 1/4" SAE	1500 mm	240 x 220 x 70	0,6



Application examples

①



Connections with vacuum pump

②



Mechanism extraction

③



Vacuum with VG64-LX digital gauge

④



Charge



Spare parts and accessories

Code	Model	Description	Female Connections	Male Connections	Dimensions (mm)	Weight (kg)
08008060002	EW 4900	1/4" core removal solution with double connections	1/4" SAE	3/8" SAE + 1/4" SAE	100 x 175 x 30	0,25
08008060003	EW 4900/5	5/16" core removal solution with double connections	5/16" SAE	3/8" SAE + 1/4" SAE	100 x 175 x 30	0,25
06141002	IVPSS/6-6/60	IperVac+ hose 1500 mm	2 x 3/8" SAE	-	240 x 220 x 70	0,30
06141001	IVPSS/6-6/36	IperVac+ hose 900 mm	2 x 3/8" SAE	-	240 x 220 x 70	0,25
05053012001	MG4-4/WIG	Swivel coupling for vacuum connections	2 x 1/4" SAE	-	-	-
06071013003	GYSS/4-4/6/Y	Flexible tube 150 mm for gauge connections	2 x 1/4" SAE	-	-	-
14020097	G-LV/T-WIG	Gaskets kit 5pcs for EW4900	-	-	-	-
08008059	LOCK-VALVE-CARE	Gaskets replacement tool for Lock valve, EW and hoses	-	-	-	-
14020015001	G19030	Gaskets kit(10pcs) for 3/8"SAE hoses	-	-	-	-
05108043001	M1/4"-R134A/V-RK	Kit 10 pcs Internal core for HFC (R134a-R410A, R32...)	-	-	-	-
05108152001	EV-KIT/K	Vacuum pump adapter kit	1/4" SAE	3/8" SAE + 5/16" SAE	-	-

WHV20/M

High performance vacuum pump

- High reliability
- Excellent performance

Professional dual stage high vacuum pumps with solenoid valve to prevent air from flushing back when the pump is turned off.

Equipped with a forced oil circulation system.

It is recommended to use the pump with the oil filter **A** and the 4 ways suction collector **B** equipped with IperVac+ hoses **C** and connections devices such as EW4900 **D** or 121RG **E**.



Code	Model	Dimensions	Weight
02002058	WHV20/M	750 x 250 x 420 mm	41 kg

TECHNICAL FEATURES

Swept volume	330 lt/min
Ultimate vacuum	1x10 ³ mbar
Power supply	230V/1/50-60Hz
Nominal power	750 W
Protection degree	IP44
Oil charge	900 - 1500 cc
Connections	KF25



Spare parts and accessories



Ref	Code	Model	Description	Female Connections	Male Connections	Dimensions (mm)	Weight (kg)
A	14015035	WVF-20	Oil separator for WHV20/M and RV-25B	-	-	150 x 140 x 160	0,8
B	04003004	CLT4/6-4	4-ways 3/8"SAE collector and 1/4" SAE M connection for vacuum gauge	-	4x3/8" SAE	190 x 120 x 72	0,45
C	06141002	IVPSS/6-6/60	IperVac+ hose 1500 mm	2 x 3/8" SAE	-	240 x 220 x 70	0,30
C	06141001	IVPSS/6-6/36	IperVac+ hose 900 mm	2 x 3/8" SAE	-	240 x 220 x 70	0,25
D	08008060002	EW 4900	1/4" core removal solution with double connections	1/4" SAE	3/8" SAE + 1/4" SAE	100 x 175 x 30	0,25
D	08008060003	EW 4900/5	5/16" core removal solution with double connections	5/16" SAE	3/8" SAE + 1/4" SAE	100 x 175 x 30	0,25
E	05001007001	121RG4-6	Valve with depressor	1/4" SAE	3/8" SAE	140 x 100 x 20	0,1
E	05001041001	121RG5-6	Valve with depressor	5/16" SAE	3/8" SAE	140 x 100 x 21	0,1
	05108152001	EV-KIT/K	Vacuum pump adapter kit	1/4" SAE	3/8" SAE + 5/16"SAE	-	-
	53001032	WRK-20	WHV20/M repair kit	-	-	-	-

DOUBLE STAGE HIGH VACUUM PUMPS

Double stage high vacuum pumps

- High performance.
- Lightweight.
- Single packaging with one bottle of mineral oil.

- WP3DE/V and WP8DE/V models are equipped with Ø80 vacuum gauge, solenoid valve to prevent air/oil from flushing back when the pump is turned off, 1/4" SAE M connections and 2 adapters 1/4"SAE F x 3/8"SAE M and 1/4"SAE F x 5/16"SAE M.
- WP14DE model is equipped with solenoid valve to prevent air/oil from flushing back when the pump is turned off, double connections 3/8"SAE M and 1/4" SAE M with caps and 2 adapters for 1/4"SAE F x 3/8"SAE M and 1/4"SAE F x 5/16"SAE M.



Imballo: 255 x 105 x 202 mm - 6,3 kg

Code	Model	Swept volume	Ultimate vacuum	Power supply**	Nominal power	Oil charge	Connections	Solenoid valve (E) Vacuum gauge (V)
02099033	WP3DE/V	42 lt/min	2x10 ⁻² mbar	220-240/1/50-60	150 W	150 cc	1/4"-5/16"-3/8"	EV

**Other voltages and frequencies, on demand.



Imballo: 338 x 138 x 244 mm - 12,4 kg

Code	Model	Swept volume	Ultimate vacuum	Power supply**	Nominal power	Oil charge	Connections	Solenoid valve (E) Vacuum gauge (V)
02099034	WP8DE/V	128 lt/min	2x10 ⁻² mbar	220-240/1/50-60	368 W	325 cc	1/4"-5/16"-3/8"	EV

**Other voltages and frequencies, on demand.



Imballo: 470 x 240 x 390 mm - 18 kg

Code	Model	Swept volume	Ultimate vacuum	Power supply**	Nominal power	Oil charge	Connections	Solenoid valve (E) Vacuum gauge (V)
02099035	WP14DE*	230 lt/min	2x10 ⁻² mbar	230V 50/60Hz	750 W	560 cc	1/4"-5/16"-3/8"	E

* Pump with dual Connections 3/8" and 1/4". **Other voltages and frequencies, on demand.



Spare parts and accessories



VACUUM PUMP OIL

Code	Model	Viscosity	Capacity	Type	Min. Qty	Dimensions	Weight
12002003	K1L	46	1L	Mineral	12	110 x 160 x 250 mm	1 Kg
12002017	W68	68	1L	Ester (POE)	12	110 x 160 x 250 mm	1 Kg

To keep the pump performances unaltered, we suggest to replace the oil every 3 months.

COMPRESSOR OIL

Code	Model	Viscosity	Capacity	Tipo	Min. Qty	Dimensions	Weight
12002006	SW32	32	1L	Ester	12	110 x 160 x 250 mm	1 kg
12002017	W68	68	1L	Ester (POE)	12	110 x 160 x 250 mm	1 ka

FITTINGS FOR VACUUM PUMPS

Ref	Code	Model	Description
	05108152001	EV-KIT/K	Kit of adapters for vacuum pumps with solenoid valve E + F
	05108153001	RDR-KIT/K	Kit of fittings for DIP-RS3-RS9 A + E + F
	05108154001	RRS15-KIT/K	Kit of fittings for RS15D C + E + F
A	05052011	48 F4	1/4" SAE x 1/4" NPT 100
B	05052012	48 F6	3/8" SAE x 1/4" NPT 50
D	05060001	PG 1/4" NPT	Hose adapter Ø 10 x 1/4" NPT -
E	05055100	W404/6	1/4" SAE F x 3/8" SAE M 100
E	05108069001	404/6K	1/4" SAE F x 3/8" SAE M 100
F	05055099	W404/5	1/4" SAE F x 5/16" SAE M 100
F	05108022001	404/5K	1/4" SAE F x 5/16" SAE M 100
G	05055008	46F	1/4" SAE M x 1/8" NPT F 100
G	05108140001	46F/K	1/4" SAE M x 1/8" NPT F 100
	14020124001	G/W404	Kit 10 gaskets for W404/6 and W404/5 10



VACUUM PUMPS PLASTIC CASE

Plastic case with internal space for vacuum pump, manifold, electronic scale and flexible hoses.

Code	Model	Description
14029019	BP/PD	DIP and RS3 plastic case
14029020	BP/MV	RS7 and RS9 plastic case

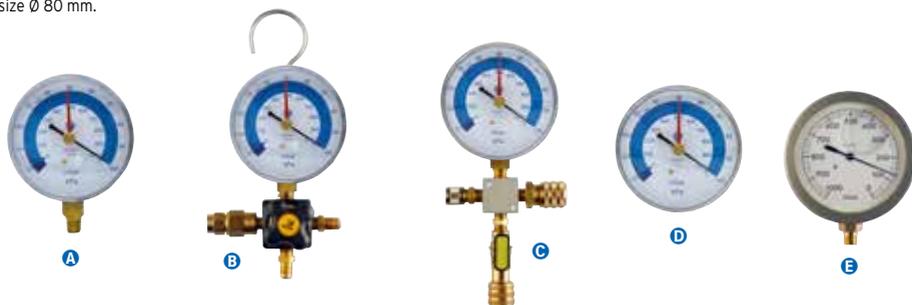
Code	Dimensions	Weight
14029019	520 x 290 x 340 mm	1,85 kg
14029020	520 x 290 x 340 mm	1,85 kg



VACUUM GAUGES

VACUUM GAUGES

- Different type of gauges are available, such as simple vacuum gauges, 1-way or 3-way manifold vacuum gauges.
- “Pulse-Free” gauges, with red pointer and calibration screw.
- Scale 0 ÷ 1.000 mbar (0 ÷ 1.00 kPa).
- Dial size Ø 80 mm.



Ref	Code	Model	Description	Connections	Dimensions	Weight
A	07041003	PF80/VR1	Radial connections vacuum gauge	1/8" NPT	110 x 90 x 40 mm	0,20 kg
B	04001003	W1VPF80/4	1-way manifold vacuum gauge, with safety valve and hook	1/4" SAE M	240 x 150 x 55 mm	0,40 kg
C	04003001	W3VPF80	3-way manifold vacuum gauge, with ball valve	1/4" SAE M x 3/8" SAE F x 3/8" SAE M	240 x 150 x 55 mm	0,40 kg
D	07041005	PF80/VC1	Rear connections vacuum gauge	1/8" NPT	90 x 90 x 60 mm	0,20 kg
E	07131011	BL80/VR1/K1	"Blondelle" vacuum gauge, oil filled, radial connections	1/8" NPT	125 x 95 x 40 mm	0,30 kg



Calibration

Code	Description
09053032	Calibration report ref. Accredia for analogical vacuum gauge

COMPLETE KIT WITH SOLENOID VALVE, VACUUM GAUGE AND WIRING



Code	Model	Connections	Description	Suitable for	Dimensions	Weight
02090001	K-EVC	1/4"-3/8"-5/16" SAE M	Complete kit with vacuum gauge	RS3-RS7-RS9-WP3-WP8	130 x 240 x 70 mm	0,35 kg
02090004	K-EC15	1/4"-3/8"-5/16" SAE M	Kit with 1 solenoid valve without vacuum gauge	RS15	230 x 140 x 80 mm	1,10 kg
07041005	PF80/VC1	1/8" NPT	Vacuum gauge	RS3-RS7-RS9-WP3-WP8	90 x 90 x 60 mm	0,20 kg

X-VG

Digital vacuum gauge

X-VG is the state-of-the-art intelligent vacuum gauge:

- Fully independent device thanks to its integrated display and onboard control.
- Bluetooth 5.0 connections for App and Smart Tools.
- Compatible with all digital manifolds of the X-MAN range.
- Vacuum test with the option to set the desired vacuum level and the maximum acceptable rise.
- Ideal when paired with the WIGAM IperVAC+ kit.
- Protective case included with compartment for IperVAC+ core removal tool (not included).



MyWIGAM App

Code	Model	Dimensions	Weight
09003021	X-VG	240 x 120 x 50 mm	0,26 kg

TECHNICAL FEATURES

Measuring units	Micron, Pascal, millibar, Torr, milliTorr
Vacuum range	0 - 19.000 microns (2530 Pa, 25,30 mBar, 19 mmHg)
Vacuum accuracy	1 micron (1 to 400 microns)
Vacuum precision	± 10% of reading (1 to 2000 microns)
Bluetooth operating range	100 m
Connections	1/4" SAE female valve
Operating temperature	-10°C to 50°C
Power supply	3 x 1.5V AA alkaline batteries



Calibration

Code	Description
09003021001	X-VG/RT Vacuum gauge complete with calibration report
09053027	Calibration report ref. Accredia

VG64-LX

Digital vacuum gauge

Code	Model	Dimensions	Weight
09003020	VG64-LX	240 x 120 x 50 mm	0,26 kg

TECHNICAL FEATURES

Measuring units	Microns, Pascal, millibar, Torr, milliTorr
Vacuum range	0 - 19.000 microns (2530 Pa, 25,30 mBar, 19 mmHg)
Vacuum accuracy	±10% (50-2000 Microns)
Vacuum precision	0,5 Micron (0-140 microns)
Maximum overpressure	800 PSI, 5,5 MPa (55 bar)
Power supply	3 x 1,5V AA alkaline batteries
Operating temperature	-17°C ÷ 65°C
Connections	2 x 1/4"SAE M



Calibration

Code	Description
09003020001	VG64-LX/RT Vacuum gauge complete with calibration report
09053027	Calibration report ref. Accredia



IDO - THE 4.0 DIGITAL AUTOMATIC UNIT

EXCLUSIVE INNOVATION

IDO

4.0 digital automatic portable unit

The digital manifold turns into your compact 4.0 digital automatic unit. Thanks to its electronics and its large LCD Touchscreen, **IDO** not only displays information and measurements, but also manages the various integrated or connected equipment in order to carry out autonomous operations, such as recovery, pressing, vacuum and charge, or cycles of operations, verifying the results with appropriate test phases and reports.

With multiple advantages ranging from time saving to certified quality of the work performed, it is possible to assign tasks or cycles of tasks to the **IDO** portable unit, with the certainty that they will be carried out, checked and certified through reports. The large touchscreen makes the unit extremely easy to use, while the interConnections on the Service Portal, accessible via PC and Smartphone, allows remote management and exchange of information in real time.

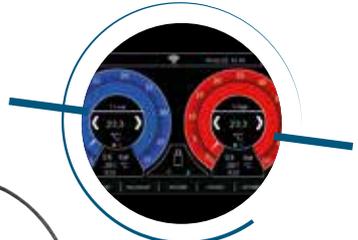
IDO meets the requirements for Impresa 4.0 benefits



Wi-Fi 4.0 Ready InterConnections



Transparent integrated diagnosis manifold



Large digital control touchscreen display



AUTOMATIC CYCLES

Management of PRESSURIZATION and TEST

Management of VACUUM and Test

Management of CHARGE

IDO

4.0 digital automatic portable unit

The IDO range is available in the following versions:

- **IDO HFC:** in several solutions for HFC (A2L included) with or without integrated vacuum pump.
- **IDO ATEX** (Page 102-103): suitable also for HC (R290, R600).

Unit IDO features:

- Large digital control touchscreen display.
- 2 pressure sensors (Low and High).
- Built-in electronic precision vacuum gauge (mTorr, Pa, mbar,...).
- 3 temperature sensors (Low, High, Ambient), Subcooling and Superheating.
- Compatibility with all K-type temperature probes (2 x TK109 included).
- Built-in and backlit visual diagnosis SPY manifold.
- 35kg removable scale with fittings and adapters for different cylinders.
- Housing for 950cc Nitrogen/Aziodro cylinders and Connections for external cylinder.
- Controlled power supply port for activation of the recovery system.
- USB port for data transfer and report.
- Integrated Wi-Fi kit for 4.0 ready InterConnections.
- Wigam Service Portal, accessible via PC and Smartphone for management information exchange and report.
- Refrigerant database that can be updated from the portal.
- Database that can be updated with the charging data of the manufacturers.
- Versions with dual stage 46, 110 or 180 l/min pump, or version without pump if the user already has one.



AUTOMATIC FUNCTIONS:



- PRESSURIZATION and TEST to check for leaks
- AUTOMATIC REFRIGERANT RECOVERY MANAGEMENT (recovery system not included)
- VACUUM and VACUUM TEST with rising check
- REFRIGERANT CHARGE internal vehicles database
- USER-ADJUSTABLE AUTOMATIC CYCLES

Code	Model	Vacuumpump	Packaging dimensions	Weight
01090035004	IDO	Prepared	650 x 400 x 380 mm	12,80 kg
01090035001	IDO-46	RS3-46l/min	650 x 400 x 380 mm	19,80 kg
01090035006	IDO-110	RS7-110l/min	650 x 400 x 380 mm	21,50 kg
01090035003	IDO-180	RS9-180l/min	650 x 400 x 380 mm	23,00 kg
*01090035005	IDO-180-100	RS9-180l/min	650 x 400 x 380 mm	23,00 kg

* With 100 Kg scale.

TECHNICAL FEATURES

Refrigerant	CFC,HCFC,HFC,HFO -A2L included
Dual stage vacuum pump	46, 110, 180 l/min
Scale	35 - 100 kg* (Model IDO 180-100)
Empty range	1-600 Pa
Charge accuracy	±10g <10kg(detachment mode)
Power supply	230V 50/60Hz
High/Low hoses	2,5m 1/4" SAE with LockValve 1/4"e 5/16" SAE
Bearings for cylinders	1/4" SAE, 5/16"SAE, 1/2" 16 ACME Sx



Calibration

Code	Description
09053054	Calibration report for IDO

INTERConnections: IDO meets the technical requirements for Impresa 4.0 benefits



WIGAM PRESENTA

X-MAN

ULTIMATE GENERATION MANIFOLD



**STATE-OF-THE-ART ELECTRONICS
COMBINED WITH THE BEST MECHANICS**

MyWIGAM App



X-MAN

WIGAM



✓ 5" HD COLOR DISPLAY



✓ SIMPLICITY AND ROBUSTNESS (IP54)



✓ BEST-IN-CLASS PISTON MECHANICS



✓ BLUETOOTH 5.0 FOR APP AND SMART TOOLS

✓ MyWIGAM App



- Refrigerants update
- Operations report
- Live data

INTUITIVE AND COMPACT



PRESSURE TEST



HEAT PUMP



VACUUM (WITH X-V6)

MyWIGAM App



REFRIGERANTS
UPDATE



OPERATIONS
REPORT



LIVE
DATA

X-MAN TOTAL SOLUTION



+



TEMPERATURE
PROBES

+



VACUUM
GAUGE

+



SCALE

X-MAN

The new X-MAN manifold combines latest-generation electronics with best-in-class mechanics. 5" HD screen, Bluetooth 5.0 for Smart Tools and MyWigam APP, with all refrigerants always available



5" HD COLOR DISPLAY in a compact design.



Built-in ambient TEMPERATURE PROBE, essential for temperature compensation during nitrogen pressure testing.



4-WAY PISTON MANIFOLD and 3/8" vacuum connections.



Simple recalibration function via the "ZERO PLUS" key.



LITHIUM BATTERY (USB-C cable and power supply included).

Main features:

- 5" HD color display in a compact design.
- 4-WAY PISTON manifold (3x1/4" SAE and 1x3/8" SAE).
- Extreme SIMPLICITY and ROBUSTNESS (IP54).
- Easy "ZERO PLUS" recalibration.
- Ambient TEMPERATURE COMPENSATION PROBE.
- Built-in MEMORY for 3.000 records.
- 2 pressure transducers (Range -0.99 to 49.90 bar).
- Max pressure 56 bar (160 bar for R744 version).
- LITHIUM BATTERY (USB-C cable and power supply included).
- Compatible with both CABLE and BLUETOOTH probes.
- BLUETOOTH 5.0 for MyWigam APP and Smart Tools.
- Connectable Wigam SMART TOOLS:
 - X-TFC clamp temperature probes.
 - X-VG digital vacuum gauge.
 - X-SCALE scale.
- MyWIGAM APP:
 - Refrigerants update.
 - Operations report.
 - Live data.



COMPLETE RANGE for all refrigerants.



SMART TOOLS available, with the option for independent use.



Built-in MEMORY for 3.000 records.



MyWIGAM App

X-MAN-100

4-way digital manifold kit

Complete with:

- 2 clamp probes with 2 m cable (Ø up to 40 mm).
- Power supply and USB-C cable.
- Heavy-duty carrying case.
- Test report.



Code	Model
04080018001	X-MAN-100

X-MAN-120

4-way digital manifold kit

Complete with:

- 2 Bluetooth clamp probes X-TFC (Ø up to 40 mm).
- Power supply and USB-C cable.
- Heavy-duty carrying case.
- Test report.



Code	Model
04080018011	X-MAN-120

X-MAN-140

4-way digital manifold kit

Complete with:

- 2 clamp probes with 2 m cable (Ø up to 40 mm).
- X-VG digital vacuum gauge.
- Power supply and USB-C cable.
- Heavy-duty carrying case.
- Test report.



Code	Model
04080018012	X-MAN-140

X-MAN-160

4-way digital manifold kit

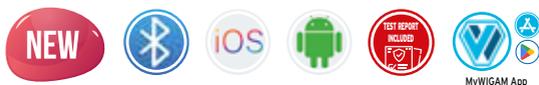
Complete with:

- 2 Bluetooth clamp probes X-TFC (Ø up to 40 mm).
- X-VG digital vacuum gauge.
- Power supply and USB-C cable.
- Heavy-duty carrying case.
- Test report.



Code	Model
04080018013	X-MAN-160

X-MAN - DIGITAL MANIFOLD



X-MAN-400

4-way digital manifold kit

Complete with:

- 2 clamp probes with 2 m cable (Ø up to 40 mm).
- 3 charging hoses + 1 IPERVAC+ high-vacuum hose.
- 4 LOCK-VALVES (2 for R32-R410A + 2 for all refrigerants).
- Power supply and USB-C cable.
- Heavy-duty carrying case.
- Test report.

Code	Model
04080018004	X-MAN-400



X-MAN-420

4-way digital manifold kit

Complete with:

- 2 Bluetooth clamp probes X-TFC (Ø up to 40 mm).
- 3 charging hoses + 1 IPERVAC+ high-vacuum hose.
- 4 LOCK-VALVES (2 for R32-R410A + 2 for all refrigerants).
- Power supply and USB-C cable.
- Heavy-duty carrying case.
- Test report.

Code	Model
04080018014	X-MAN-420



X-MAN-480

4-way digital manifold kit

Complete with:

- 2 Bluetooth clamp probes X-TFC (Ø up to 40 mm).
- X-VG digital vacuum gauge.
- X-SCALE scale.
- 3 charging hoses + 1 IPERVAC+ high-vacuum hose.
- 4 LOCK-VALVES (2 for R32-R410A + 2 for all refrigerants).
- Power supply and USB-C cable.
- Heavy-duty carrying case and Wigam tool backpack.
- Test report.

Code	Model
04080018018	X-MAN-480



Spare parts and accessories

Code	Model	Description
09012040	T-CLAMP	2 m cable clamp probe
04111011	PWP	Complete piston assembly
14021013001	PWKG-L	LOW knob kit

Code	Model	Description
14021014001	PWKG-H	HIGH knob kit
14021015001	PWKG-R	REF knob kit
14021016001	PWKG-V	VAC knob kit



Calibration

Code	Description
09053012	Calibration report ref. Accredia - X-MAN

X-MAN - DIGITAL MANIFOLD SET FOR HC-CO₂-NH₃

NEW



HC
R600A R290
R1270

X-MAN-EX-100

4-way digital manifold kit for HC - hydrocarbons

Complete with:

- 2 clamp probes with 2 m cable (Ø up to 40 mm).
- Power supply and USB-C cable.
- Heavy-duty carrying case.
- Test report.

COMPLETE DATA SHEET P. 112

Code	Model	Description
04080022001	X-MAN-EX-100	Digital manifold for HC



R744

X-MAN-R744

2-way digital manifold kit for R744-CO₂

Complete with:

- 2 clamp probes with 2 m cable (Ø up to 40 mm).
- Power supply and USB-C cable.
- Heavy-duty carrying case.
- Test report.

COMPLETE DATA SHEET P. 98

Code	Model	Description
04080020001	X-MAN-R744	Digital manifold for R744
06150018	3W-COSS/4-4/60	1500 mm flexible hoses for R744



NH3
R717

X-MAN-R717

4-way digital manifold kit for R717-NH₃

Complete with:

- 2 clamp probes with 2 m cable (Ø up to 40 mm).
- Power supply and USB-C cable.
- Heavy-duty carrying case.
- Test report.

COMPLETE DATA SHEET P. 120

Code	Model	Description
04080021001	X-MAN-R717	Digital manifold for R717
06001183	HDSS/4-4/60-R717	1500 mm flexible hoses for R717



PISTON MANIFOLD



DIAPHRAGM MANIFOLD



"PULSE FREE" GAUGES



OIL FILLED GAUGES



DRY GAUGES



Read the WIGAM model

DIAPHRAGM	PISTON	GAUGE	REFRIGERANT	CONNECTIONS	PRECISION CLASS
W1L - 1 way LP	PF2 - 2 ways	PF80 - PULSE FREE	A4 - R410A-R32	4 - 1/4"SAE	K1 - Class 1
W1H - 1 way HP	PW4 - 4 ways	MS80 - Dry	A6 - R22-R134a-R404A-R407C	5 - 5/16"SAE	
F2 - 2 ways		ML80 - Liquid	A3 - R600a	6 - 3/8"SAE	
W4 - 4 ways		BL60 - Blondelle liquid	D6 - R600a-R290-R1270		
W5 - 5 ways			D5 - R744		
			D9 - R448A-R449A-R452A-R513A		
			E1 - R404A-R448A-R449A-R134a-R452A		
			E4 - R404A-R454C-R455A		



Piston manifold 4-ways "pulse free", liquid diam gauges. 80, for R410a/R32, Connections 5/16"SAE, class 1

4-WAY SPY PISTON KITS



REFRIGERANTS DIALS
A4 R410A-R32 **A6** R22-R134a-R404A-R407C

K-SPY4PFA6-4-GYSS60-LV K-SPY4PFA4-5-GYSS60-LV

SPY 4 way manifold kit with hoses

Sturdy plastic suitcase containing:

- 4 way SPY manifold with gauges Ø80mm "Pulse free", Class 1.
- 2 flexible hoses, GY series 1500mm, red and blue.
- 1 flexible hose, GY series 1500mm, yellow, with final valve.
- 1 IperVac+ flexible hose 900mm 3/8" SAE.
- 2 access valves Lock-valve.



Code	Model	Dial	Connections
04101135	K-SPY4PFA6-4-GYSS60-LV	A6	3x 1/4"SAE + 1x 3/8"SAE
04101136	K-SPY4PFA4-5-GYSS60-LV	A4	3x 5/16"SAE + 1x 3/8"SAE

Code	Dimensions	Weight
04101135	360 x 320 x 120 mm	2,5 kg
04101136	360 x 320 x 120 mm	2,5 kg

K-SPY4PFA6-4 / K-SPY4PFA4-5

SPY 4 way manifold kit without hoses

Sturdy plastic suitcase containing:

- 4 way SPY manifold with gauges Ø80mm "PULSE FREE", Class 1.



Code	Model	Dial	Connections
04101137	K-SPY4PFA6-4	A6	3x 1/4"SAE + 1x 3/8"SAE
04101138	K-SPY4PFA4-5	A4	3x 5/16"SAE + 1x 3/8"SAE

Code	Dimensions	Weight
04101137	360 x 320 x 120 mm	1,5 kg
04101138	360 x 320 x 120 mm	1,5 kg



Calibration

Code	Description
09053010	Calibration report ref. Accredia for 2-4 ways manifold kit

2-WAY SPY PISTON KITS



REFRIGERANTS DIALS

A4

R410A-R32

A6

R22-R134a-R404A-R407C

K-SPY2PFA6-4-GYSS60-LV K-SPY2PFA4-5-GYSS60-LV

SPY 2 way manifold kit with hoses

Sturdy plastic suitcase containing:

- 2 way SPY manifold with gauges Ø80mm "Pulse free", Class 1.
- 2 flexible hoses, GY series 1500mm, red and blue.
- 2 flexible hoses, GY series 1500mm, yellow, with final valve.
- 2 access valves Lock-valve.



Code	Model	Dial	Connections
04101124	K-SPY2PFA6-4-GYSS60-LV	A6	1/4" SAE
04101125	K-SPY2PFA4-5-GYSS60-LV	A4	5/16" SAE

Code	Dimensions	Weight
04101124	360 x 320 x 120 mm	2,5 kg
04101125	360 x 320 x 120 mm	2,5 kg

K-SPY2PFA6-4 / K-SPY2PFA4-5

SPY 2 way manifold kit without hoses

Sturdy plastic suitcase containing:

- 2 way SPY manifold with gauges Ø80mm "PULSE FREE", Class 1.

Code	Model	Dial	Connections
04101133	K-SPY2PFA6-4	A6	1/4" SAE
04101134	K-SPY2PFA4-5	A4	5/16" SAE

Code	Dimensions	Weight
04101133	360 x 320 x 120 mm	1,5 kg
04101134	360 x 320 x 120 mm	1,5 kg



Calibration

Code	Description
09053010	Calibration report ref. Accredia for 2-4 ways manifold kit

4-WAY KITS

REFRIGERANTS DIALS	
A4	R410A-R32
A6	R22-R134a-R404A-R407C



4-WAY MANIFOLD KITS IN CARRYING CASE WITH FLEXIBLE HOSES

Sturdy plastic case containing:

- 1 pc. 4-way manifold
- 3 pcs. flexible hoses 1500 mm with or without ball valve
- 1 pc. flexible hose 900 mm

On request, the kit may be supplied with any combination



4-WAY WITH DRY GAUGES Ø80 CLASS 1

- 3 flexible hoses 1500 mm without ball valve.
- 1 flexible hose 900 mm 3/8" SAE.

Code	Model	Dial	Connections
04101109	K-W4MSA6-4-CSA60	A6	3x1/4" + 1x3/8" SAE
04101110	K-W4MSA4-5-CSA60	A4	3x5/16" + 1x3/8" SAE

Code	Dimensions	Weight
04101109	360 x 320 x 120 mm	2,5 kg
04101110	360 x 320 x 120 mm	2,5 kg



4-WAYS WITH "PULSE FREE" GAUGES Ø80 CLASS 1

- 3 flexible hoses 1500 mm with ball valve.
- 1 IperVac+ flexible hose 900 mm 3/8" SAE.

Code	Model	Dial	Connections
04101112	K-W4PFA6-4-GYSA56V4	A6	3x1/4" + 1x3/8" SAE
04101114	K-W4PFA4-5-GYSA56V4	A4	3x5/16" + 1x3/8" SAE

Code	Dimensions	Weight
04101112	360 x 320 x 120 mm	2,5 kg
04101114	360 x 320 x 120 mm	2,5 kg



4-WAYS PISTON WITH "PULSE FREE" GAUGES Ø80 CLASS 1 WITH 2 LOCK-VALVE

- 3 flexible hoses, 1500 mm with 2 supplied Lock-Valve.
- 1 IperVac+ flexible hose 900 mm 3/8" SAE.

Code	Model	Dial	Connections
04101122	K-PW4PFA6-4-GYSS60-LV	A6	3x1/4" + 1x3/8" SAE
04101123	K-PW4PFA4-5-GYSS60-LV	A4	3x5/16" + 1x3/8" SAE

Code	Dimensions	Weight
04101122	360 x 320 x 120 mm	2,5 kg
04101123	360 x 320 x 120 mm	2,5 kg



Calibration

Code	Description
09053010	Calibration report ref. Accredia for 2-4 ways manifold kit

PLASTIC CASE FOR MANIFOLDS

Code	Model	Dimensions	Weight
14029060	VP/B13	360 x 320 x 120 mm	0,75 kg

2-WAY KITS

REFRIGERANTS DIALS

A4

R410A-R32

A6

R22-R134a-R404A-R407C

2-WAY MANIFOLD KITS IN CARRYING CASE WITH FLEXIBLE HOSES

Sturdy plastic case containing:

1 pc. 2-way manifold

3 pcs. flexible hoses 1500 mm with or without ball valve

On request, the kit may be supplied with any combination



2-WAYS WITH DRY GAUGES Ø80 CLASS 1

n.3 flexible hoses 1500 mm without ball valve.

Code	Model	Dial	Connections
04101101	K-F2MSA6-4-CSA60	A6	3x1/4"
04101106	K-F2MSA4-5-CSA60	A4	3x5/16"

Code	Dimensions	Weight
04101101	360 x 320 x 120 mm	2,5 kg
04101106	360 x 320 x 120 mm	2,5 kg



2-WAYS WITH "PULSE FREE" GAUGES Ø80 CLASS 1

n.3 flexible hoses 1500 mm with ball valve.

Code	Model	Dial	Connections
04101107	K-F2PFA6-4-GYSA56V4	A6	3x1/4"
04101108	K-F2PFA4-5-GYSA56V4	A4	3x5/16"

Code	Dimensions	Weight
04101107	360 x 320 x 120 mm	2,5 kg
04101108	360 x 320 x 120 mm	2,5 kg



2-WAYS PISTON WITH "PULSE FREE" GAUGES Ø80 CLASS 1 WITH 2 LOCK VALVE

n.2 blu and red flexible hoses, 1500 mm with 2 supplied Lock-Valve.

n.1 yellow flexible hose with ball valve.

Code	Model	Dial	Connections
04101120	K-PF2PFA6-4-GYSS60-LV	A6	3x1/4"
04101121	K-PF2PFA4-5-GYSS60-LV	A4	3x5/16"

Code	Dimensions	Weight
04101120	360 x 320 x 120 mm	2,5 kg
04101121	360 x 320 x 120 mm	2,5 kg



PLASTIC CASE FOR MANIFOLDS

Code	Model	Dimensions	Weight
14029060	VP/B13	360 x 320 x 120 mm	0,75 kg


Calibration

Code	Description
09053010	Calibration report ref. Accredia for 2-4 ways manifold kit

4-WAYS PISTONS MANIFOLD

REFRIGERANTS DIALS

A3 R600a **A4** R410A-R32 **A6** R22-R134a-R404A-R407C **D6** R600a-R290-R1270 **D9** R448A-R449A-R452A-R513A

On request with different refrigerants scales and diameters

WITH "PULSE-FREE" PRESSURE GAUGES Ø80 CLASS 1 WITH REGULATION SCREW



Code	Model	Dial	Connections	Dimensions	Weight
04024040	PW4PF80/A3/4/K1	A3	3x1/4" SAE + 1x3/8"SAE	240 x 220 x 70 mm	0,9 kg
04024024	PW4PF80/A4/5/K1	A4	3x5/16" SAE + 1x3/8"SAE	240 x 220 x 70 mm	0,9 kg
04024025	PW4PF80/A6/4/K1	A6	3x1/4" SAE + 1x3/8"SAE	240 x 220 x 70 mm	0,9 kg
04024051	PW4PF80/D6/4/K1	D6	3x1/4" SAE + 1x3/8"SAE	240 x 220 x 70 mm	0,9 kg
04024053	PW4PF80/D9/4/K1	D9	3x1/4"SAE + 1x3/8"SAE	240 x 220 x 70 mm	0,9 kg

WITH DRY PRESSURE GAUGES Ø80 CLASS 1 WITH REGULATION SCREW



Code	Model	Dial	Connections	Dimensions	Weight
04004064	PW4MS80/A4/5/K1	A4	3x5/16" SAE + 1x3/8"SAE	240 x 220 x 70 mm	0,9 kg
04004058	PW4MS80/A6/4/K1	A6	3x1/4" SAE + 1x3/8" SAE	240 x 220 x 70 mm	0,9 kg

WITH OIL-FILLED PRESSURE GAUGES Ø80 CLASS 1 WITH REGULATION SCREW



Code	Model	Dial	Connections	Dimensions	Weight
04024038	PW4ML80/A4/5/K1	A4	3x5/16" SAE + 1x3/8"SAE	240 x 220 x 70 mm	1,1 kg
04024043	PW4ML80/A6/4/K1	A6	3x1/4"SAE + 1x3/8" SAE	240 x 220 x 70 mm	1,1kg
04024039	PW4ML80/D6/4/K1	D6	3x1/4"SAE + 1x3/8" SAE	240 x 220 x 70 mm	1,1ka

WITH OIL-FILLED PRESSURE GAUGES Ø60 CLASS 1 WITH REGULATION SCREW - BLONDELLE



Code	Model	Dial	Connections	Dimensions	Weight
04024037	PW4BL60/A4/5/K1	A4	3x5/16" SAE + 1x3/8" SAE	240 x 220 x 70 mm	1,1 kg
04024032	PW4BL60/A6/4/K1	A6	3x1/4" SAE + 1x3/8" SAE	240 x 220 x 70 mm	1,1kg

WITHOUT PRESSURE GAUGES

Code	Model	Connections
04044014	PW4SM/4	3X1/4" SAE + 1X3/8" SAE
04044017	PW4SM/5	3X5/16" SAE + 1X3/8" SAE



Calibration

Code

Description

09053010 Calibration report ref. Accredia for 2-4 ways manifold kit

2-WAY PISTONS MANIFOLD

REFRIGERANTS DIALS

A3 R600a **A4** R410A-R32 **A6** R22-R134a-R404A-R407C **D5** R744 **D6** R600a-R290-R1270 **D9** R448A-R449A-R452A-R513A

On request with different refrigerants scales and diameters

WITH "PULSE-FREE" PRESSURE GAUGES Ø80 CLASS 1 WITH REGULATION SCREW

Code	Model	Dial	Connections	Dimensions	Weight
04002070	PF2PF80/A3/4/K1	A3	3x1/4" SAE	240 x 220 x 70 mm	0,85 kg
04022031	PF2PF80/A4/5/K1	A4	3x5/16" SAE	240 x 220 x 70 mm	0,85 kg
04022032	PF2PF80/A6/4/K1	A6	3x1/4" SAE	240 x 220 x 70 mm	0,85 kg
04022074	PF2PF80/D6/4/K1	D6	3x1/4" SAE	240 x 220 x 70 mm	0,85 kg
04022076	PF2PF80/D9/4/K1	D9	3x1/4" SAE	240 x 220 x 70 mm	0,85 kg



WITH DRY PRESSURE GAUGES Ø80 CLASS 1 WITH REGULATION SCREW

Code	Model	Dial	Connections	Dimensions	Weight
04002063	PF2MS80/A4/5/K1	A4	3x5/16" SAE	240 x 220 x 70 mm	0,85 kg
04002050	PF2MS80/A6/4/K1	A6	3x1/4" SAE	240 x 220 x 70 mm	0,85 kg



WITH OIL-FILLED PRESSURE GAUGES Ø80 CLASS 1 WITH REGULATION SCREW

Code	Model	Dial	Connections	Dimensions	Weight
04022061	PF2ML80/A4/5/K1	A4	3x5/16" SAE	240 x 220 x 70 mm	0,99 kg
04022064	PF2ML80/A6/4/K1	A6	3x1/4" SAE	240 x 220 x 70 mm	0,99 kg
04022062	PF2ML80/D6/4/K1	D6	3x1/4" SAE	240 x 220 x 70 mm	0,99 kg
04022060	PF2ML80/D5/4/K1	D5	3x1/4" SAE	240 x 220 x 70 mm	0,99 kg



WITH OIL-FILLED PRESSURE GAUGES Ø60 CLASS 1 WITH REGULATION SCREW - BLONDELLE

Code	Model	Dial	Connections	Dimensions	Weight
04022054	PF2BL60/A4/5/K1	A4	3x5/16" SAE	240 x 220 x 70 mm	0,85 kg
04022039	PF2BL60/A6/4/K1	A6	3x1/4" SAE	240 x 220 x 70 mm	0,85 kg



WITHOUT PRESSURE GAUGES

Code	Model	Connections
04042013	PF2SM/4	3x1/4" SAE
04042016	PF2SM/5	3x5/16" SAE



Calibration

Code	Description
09053010	Calibration report ref. Accredia for 2-4 ways manifold kit

4-WAY MANIFOLD

REFRIGERANTS DIALS

A3 R600a **A4** R410A-R32 **A6** R22-R134a-R404A-R407C **D6** R600a-R290-R1270 **D9** R448A-R449A-R452A-R513A

On request with different refrigerants scales and diameters

WITH "PULSE-FREE" PRESSURE GAUGES Ø80 CLASS 1 WITH REGULATION SCREW



Code	Model	Dial	Connections	Dimensions	Weight
04024042	W4PF80/A3/4/K1	A3	3x1/4" SAE + 1x3/8"SAE	240 x 220 x 70 mm	0,9 kg
04024007	W4PF80/A4/5/K1	A4	3x5/16" SAE + 1x3/8"SAE	240 x 220 x 70 mm	0,9 kg
04024008	W4PF80/A6/4/K1	A6	3x1/4"SAE + 1x3/8" SAE	240 x 220 x 70 mm	0,9 kg
04024052	W4PF80/D6/4/K1	D6	3x1/4"SAE + 1x3/8" SAE	240 x 220 x 70 mm	0,9 kg
04024054	W4PF80/D9/4/K1	D9	3x1/4"SAE + 1x3/8" SAE	240 x 220 x 70 mm	0,9 kg

WITH DRY PRESSURE GAUGES Ø80 CLASS 1 WITH REGULATION SCREW



Code	Model	Dial	Connections	Dimensions	Weight
04004059	W4MS80/A4/5/K1	A4	3x5/16" SAE + 1x3/8"SAE	240 x 220 x 70 mm	0,9 kg
04004039	W4MS80/A6/4/K1	A6	3x1/4" SAE + 1x3/8" SAE	240 x 220 x 70 mm	0,9 kg

WITH OIL-FILLED PRESSURE GAUGES Ø60 CLASS 1 WITH REGULATION SCREW - BLONDELLE



Code	Model	Dial	Connections	Dimensions	Weight
04024036	W4BL60/A4/5/K1	A4	3x5/16" SAE + 1x3/8" SAE	240 x 220 x 70 mm	0,9 kg
04024020	W4BL60/A6/4/K1	A6	3x1/4" SAE + 1x3/8" SAE	240 x 220 x 70 mm	0,9 kg

WITHOUT PRESSURE GAUGES

Code	Model	Connections
04044003	W4SM/4	3x1/4" SAE + 1x3/8" SAE
04044010	W4SM/5	3x5/16" SAE + 1x3/8" SAE



Calibration

Code	Description
09053010	Calibration report ref. Accredia for 2-4 ways manifold kit

2-WAY MANIFOLD

REFRIGERANTS DIALS

A3 R600a **A4** R410A-R32 **A6** R22-R134a-R404A-R407C **D6** R600a-R290-R1270 **D9** R448A-R449A-R452A-R513A

On request with different refrigerants scales and diameters

WITH "PULSE-FREE" PRESSURE GAUGES Ø80 CLASS 1 WITH REGULATION SCREW

Code	Model	Dial	Connections	Dimensions	Weight
04002071	F2PF80/A3/4/K1	A3	3x1/4" SAE	240 x 220 x 70 mm	0,85 kg
04022006	F2PF80/A4/5/K1	A4	3x5/16" SAE	240 x 220 x 70 mm	0,85 kg
04022007	F2PF80/A6/4/K1	A6	3x1/4" SAE	240 x 220 x 70 mm	0,85 kg
04022075	F2PF80/D6/4/K1	D6	3x1/4" SAE	240 x 220 x 70 mm	0,85 kg
04022077	F2PF80/D9/4/K1	D9	3x1/4" SAE	240 x 220 x 70 mm	0,85 kg



WITH DRY PRESSURE GAUGES Ø80 CLASS 1 WITH REGULATION SCREW

Code	Model	Dial	Connections	Dimensions	Weight
04002033	F2MS80/A4/5/K1	A4	3x5/16" SAE	240 x 220 x 70 mm	0,85 kg
04002032	F2MS80/A6/4/K1	A6	3x1/4" SAE	240 x 220 x 70 mm	0,85 kg



WITH OIL-FILLED PRESSURE GAUGES Ø60 CLASS 1 WITH REGULATION SCREW - BLONDELLE

Code	Model	Dial	Connections	Dimensions	Weight
04022053	F2BL60/A4/5/K1	A4	3x5/16" SAE	240 x 220 x 70 mm	0,85 kg
04022025	F2BL60/A6/4/K1	A6	3x1/4" SAE	240 x 220 x 70 mm	0,85 kg



WITHOUT PRESSURE GAUGES

Code	Model	Connections
04042001	F2SM/4	3x1/4" SAE
04042005	F2SM/5	3x5/16" SAE



Calibration

Code	Description
09053010	Calibration report ref. Accredia for 2-4 ways manifold kit

1-WAY MANIFOLD

REFRIGERANTS DIALS

A4 R410A-R32 **A6** R22-R134a-R404A-R407C **D6** R600a-R290-R1270 **D9** R448A-R449A-R452A-R513A

WITH "PULSE-FREE" PRESSURE GAUGE Ø80 CLASS 1 WITH REGULATION SCREW



Code	Model	Dial	Connections	Pressure MPa	Dimensions	Weight
04021005	WILPF80/A4/5/K1	A4	2x5/16" SAE	-0,1 ÷ 3,8	240 x 150 x 55 mm	0,4 kg
04021006	WILPF80/A6/4/K1	A6	2x1/4"SAE	-0,1 ÷ 1,5	240 x 150 x 55 mm	0,4 kg
04021012	WIHPF80/A4/5/K1	A4	2x5/16" SAE	-0,1 ÷ 5,3	240 x 150 x 55 mm	0,4 kg
04021013	WIHPF80/A6/4/K1	A6	2x1/4"SAE	-0,1 ÷ 3,5	240 x 150 x 55 mm	0,4 kg
04021074	WILPF80/D6/4/K1	D6	2x1/4"SAE	-0,1 ÷ 1,8	240 x 150 x 55 mm	0,4 kg
04021075	WIHPF80/D6/4/K1	D6	2x1/4"SAE	-0,1 ÷ 3,8	240 x 150 x 55 mm	0,4 kg
04021076	WILPF80/D9/4/K1	D9	2x1/4"SAE	-0,1 ÷ 1,8	240 x 150 x 55 mm	0,4 kg
04021077	WIHPF80/D9/4/K1	D9	2x1/4"SAE	-0,1 ÷ 3,8	240 x 150 x 55 mm	0,4 kg

WITH DRY PRESSURE GAUGE Ø80 CLASS 1 WITH REGULATION SCREW



Code	Model	Dial	Connections	Pressure MPa	Dimensions	Weight
04001076	WILMS80/A4/5/K1	A4	2x5/16" SAE	-0,1 ÷ 3,8	240 x 150 x 55 mm	0,4 kg
04001047	WILMS80/A6/4/K1	A6	2x1/4"SAE	-0,1 ÷ 1,5	240 x 150 x 55 mm	0,4 kg
04001077	WIHMS80/A4/5/K1	A4	2x5/16" SAE	-0,1 ÷ 5,3	240 x 150 x 55 mm	0,4 kg
04001048	WIHMS80/A6/4/K1	A6	2x1/4"SAE	-0,1 ÷ 3,5	240 x 150 x 55 mm	0,4 kg

WITH OIL FILLED PRESSURE GAUGE Ø80 CLASS 1 WITH REGULATION SCREW



Code	Model	Dial	Connections	Pressure MPa	Dimensions	Weight
04001078	WILML80/A4/5/K1	A4	2x5/16" SAE	-0,1 ÷ 3,8	240 x 150 x 55 mm	0,5 kg
04001079	WILML80/A6/4/K1	A6	2x1/4"SAE	-0,1 ÷ 1,5	240 x 150 x 55 mm	0,5 kg
04001080	WIHML80/A4/5/K1	A4	2x5/16" SAE	-0,1 ÷ 5,3	240 x 150 x 55 mm	0,5 kg
04001081	WIHML80/A6/4/K1	A6	2x1/4"SAE	-0,1 ÷ 3,5	240 x 150 x 55 mm	0,5 kg

WITH OIL FILLED PRESSURE GAUGE Ø60 CLASS 1 WITH REGULATION SCREW - BLONDELLE



Code	Model	Dial	Connections	Pressure MPa	Dimensions	Weight
04021036	WILBL60/A6/4/K1	A6	2x1/4"SAE	-0,1 ÷ 1,5	240 x 150 x 55 mm	0,4 kg
04021035	WIHBL60/A6/4/K1	A6	2x1/4"SAE	-0,1 ÷ 1,5	240 x 150 x 55 mm	0,4 kg

Available on request with A4 scale (R410A-R32).

1 MPa=10 bar

WITHOUT PRESSURE GAUGES

Code	Model	Connections	Color
04041001	WILSM/4	2X1/4" SAE	Blue
04041011	WILSM/5	2X5/16" SAE	Blue
04041002	WIHSM/4	2X1/4" SAE	Red
04041012	WIHSM/5	2X5/16" SAE	Red



Calibration

Code

Description

09053010 Calibration report ref. Accredia for 2-4 ways manifold kit

SPARE PARTS AND ACCESSORIES FOR MANIFOLDS

PLASTIC CASE FOR MANIFOLD KITS

Suitable for 1-, 2- and 4-way manifold kits.

Code	Model	Dimensions	Weight
14029060	VP/B13	360 x 320 x 120 mm	0,75 kg



Spare parts for piston manifolds

Ref	Code	Model	Description
A	04111011	PWP	Complete piston assembly
B	14021013001	PWKG-L	LOW knob kit
B	14021014001	PWKG-H	HIGH Knob kit
B	14021015001	PWKG-R	REF Knob kit
B	14021016001	PWKG-V	VAC Knob kit



Spare parts for diaphragm manifolds

Ref	Code	Model	Description
A	04110011	W004	Hook for manifold sets
B	14020011001	WKG 04	Knob seal kit
C	14021001001	WKG07 H	HIGH knob kit
C	14021002001	WKG07 L	LOW knob kit
C	14021003001	WKG07 V	VAC knob kit
C	14021004001	WKG07 R	REF knob kit
D	14020118001	WKG 05	Spring and poppet kit
E	14020119001	WKG 06	Complete sight glass kit



PRESSURE GAUGES

REFRIGERANTS DIALS

A3	R600a	A4	R410A-R32	A6	R22-R134a-R40A-R407C	D5	R744	D6	R600a-R290-R1270	D9	R448A-R449A-R452A-R513A
						E4	R404A-R454C-R455A				

On request with different refrigerants scales and diameters

"PULSE-FREE" PRESSURE GAUGES Ø80 CLASS 1 RADIAL CONNECTION WITH REGULATION SCREW



Code	Model	Dial	Connections	Pressure MPa	Dimensions	Weight
07121008	PF80/3R1/A3/K1	A3	1/8" NPT	-0,1 ÷ 0,3	100 x 90 x 40 mm	0,2 kg
07121018	PF80/9R1/A3/K1	A3	1/8" NPT	-0,1 ÷ 1,0	100 x 90 x 40 mm	0,2 kg
07121001	PF80/3R1/A4/K1	A4	1/8" NPT	-0,1 ÷ 3,8	100 x 90 x 40 mm	0,2 kg
07121002	PF80/53R1/A4/K1	A4	1/8" NPT	-0,1 ÷ 5,3	100 x 90 x 40 mm	0,2 kg
07121012	PF80/15R1/A6/K1	A6	1/8" NPT	-0,1 ÷ 1,5	100 x 90 x 40 mm	0,2 kg
07121013	PF80/35R1/A6/K1	A6	1/8" NPT	-0,1 ÷ 3,5	100 x 90 x 40 mm	0,2 kg
07121024	PF80/18R1/D6/K1	D6	1/8" NPT	-0,1 ÷ 1,8	100 x 90 x 40 mm	0,2 kg
07121025	PF80/38R1/D6/K1	D6	1/8" NPT	-0,1 ÷ 3,8	100 x 90 x 40 mm	0,2 kg
07121026	PF80/18R1/D9/K1	D9	1/8" NPT	-0,1 ÷ 1,8	100 x 90 x 40 mm	0,2 kg
07121027	PF80/38R1/D9/K1	D9	1/8" NPT	-0,1 ÷ 3,8	100 x 90 x 40 mm	0,2 kg
07121029	PF80/18R1/E4/1	E4	1/8" NPT	-0,1 ÷ 1,8	100 x 90 x 40 mm	0,2 kg
07121030	PF80/38R1/E4/1	E4	1/8" NPT	-0,1 ÷ 3,8	100 x 90 x 40 mm	0,2 kg

DRY PRESSURE GAUGES Ø80 CLASS 1



Code	Model	Dial	Connections	Pressure MPa	Dimensions	Weight
07101009	MS80/38R1/A4/K1	A4	1/8" NPT	-0,1 ÷ 3,8	100 x 90 x 40 mm	0,2 kg
07101010	MS80/53R1/A4/K1	A4	1/8" NPT	-0,1 ÷ 5,3	100 x 90 x 40 mm	0,2 kg
07101007	MS80/15R1/A6/K1	A6	1/8" NPT	-0,1 ÷ 1,5	100 x 90 x 40 mm	0,2 kg
07101008	MS80/35R1/A6/K1	A6	1/8" NPT	-0,1 ÷ 3,5	100 x 90 x 40 mm	0,2 kg

OIL-FILLED PRESSURE GAUGES Ø80 CLASS 1



Code	Model	Dial	Connections	Pressure MPa	Dimensions	Weight
07113005	ML80/38R1/A4/K1	A4	1/8" NPT	-0,1 ÷ 3,8	100 x 90 x 40 mm	0,3 kg
07113006	ML80/53R1/A4/K1	A4	1/8" NPT	-0,1 ÷ 5,3	100 x 90 x 40 mm	0,3 kg
07113003	ML80/15R1/A6/K1	A6	1/8" NPT	-0,1 ÷ 1,5	100 x 90 x 40 mm	0,3 kg
07113004	ML80/35R1/A6/K1	A6	1/8" NPT	-0,1 ÷ 3,5	100 x 90 x 40 mm	0,3 kg
07113007	ML80/18R1/D6/K1	D6	1/8" NPT	-0,1 ÷ 1,8	100 x 90 x 40 mm	0,3 kg
07113008	ML80/38R1/D6/K1	D6	1/8" NPT	-0,1 ÷ 3,8	100 x 90 x 40 mm	0,3 kg
07113001	ML80/100R1/D5/K1	D5	1/8" NPT	-0,1 ÷ 10	100 x 90 x 40 mm	0,3 kg
07113002	ML80/160R1/D5/K1	D5	1/8" NPT	-0,1 ÷ 16	100 x 90 x 40 mm	0,3 kg

OIL-FILLED PRESSURE GAUGES Ø60 CLASS 1



Code	Model	Dial	Connections	Pressure MPa	Dimensions	Weight
07131032	BL60/20R1/A4/K1	A4	1/8" NPT	-0,1 ÷ 2,0	125 x 95 x 40 mm	0,3 kg
07131033	BL60/45R1/A4/K1	A4	1/8" NPT	-0,1 ÷ 4,5	125 x 95 x 40 mm	0,3 kg
07131012	BL60/10R1/A6/K1	A6	1/8" NPT	-0,1 ÷ 1,0	125 x 95 x 40 mm	0,3 kg
07131013	BL60/30R1/A6/K1	A6	1/8" NPT	-0,1 ÷ 3,0	125 x 95 x 40 mm	0,3 kg

OIL-FILLED PRESSURE GAUGES Ø60 CLASS 1



Code	Model	Dial	Connections	Pressure MPa	Dimensions	Weight
07131016	BL60/10C4/A6/K1	A6	1/4" SAE	-0,1 ÷ 1,0	125 x 95 x 40 mm	0,3 kg
07131017	BL60/30C4/A6/K1	A6	1/4" SAE	-0,1 ÷ 3,0	125 x 95 x 40 mm	0,3 kg

PRESSURE GAUGES

REFRIGERANTS DIALS

A4 R410A-R32 **A6** R22-R134a-R404A-R407C **A8** R22-R404A-R134a-R407C **D5** R744 **E1** R404A-R448A-R449A-R134A-R452A

On request with different refrigerants scales and diameters

OIL-FILLED PRESSURE GAUGES Ø80 CLASS 1

Rear connection mounting bracket and stainless steel case

Code	Model	Dial	Connections	Pressure MPa	Dimensions	Weight
07113019	ML80/18C4S/A6/K1	A6	1/4" SAE	-0,1 ÷ 1,5	90 x 90 x 70 mm	0,3 kg
07113020	ML80/38C4S/A6/K1	A6	1/4" SAE	-0,1 ÷ 3,5	90 x 90 x 70 mm	0,3 kg
07113012	ML80/38C4S/A4/K1	A4	1/4" SAE	-0,1 ÷ 3,8	90 x 90 x 70 mm	0,3 kg
07113013	ML80/53C4S/A4/K1	A4	1/4" SAE	-0,1 ÷ 5,3	90 x 90 x 70 mm	0,3 kg
07113014	ML80/100C4S/D5/K1	D5	1/4" SAE	-0,1 ÷ 10	90 x 90 x 70 mm	0,3 kg
07113015	ML80/160C4S/D5/K1	D5	1/4" SAE	0,1 ÷ 16	90 x 90 x 70 mm	0,3 kg
07113011	ML80/18C4S/U/K1		1/4" SAE	-0,1 ÷ 1,8	90 x 90 x 70 mm	0,3 kg



OIL-FILLED PRESSURE GAUGES Ø60 VCLASS 1.6

Rear connection mounting bracket and stainless steel case

Code	Model	Dial	Connections	Pressure MPa	Dimensions	Weight
07011015	ML60/18C4S/A8	A8	1/4" SAE	-0,1 ÷ 1,8	80 x 80 x 65 mm	0,3 kg
07011016	ML60/38C4S/A8	A8	1/4" SAE	-0,1 ÷ 3,8	80 x 80 x 65 mm	0,3 kg
07011040	ML60/38C4S/A4	A4	1/4" SAE	-0,1 ÷ 3,8	80 x 80 x 65 mm	0,3 kg
07011041	ML60/53C4S/A4	A4	1/4" SAE	-0,1 ÷ 5,3	80 x 80 x 65 mm	0,3 kg
07011056	ML60/18C4S/E1	E1	1/4" SAE	-0,1 ÷ 1,8	80 x 80 x 65 mm	0,3 kg
07011057	ML60/38C4S/E1	E1	1/4" SAE	-0,1 ÷ 3,8	80 x 80 x 65 mm	0,3 kg
07011017	ML60/18C4S/U		1/4" SAE	-0,1 ÷ 1,8	80 x 80 x 65 mm	0,3 kg
07011052	ML60/38C4S/U		1/4" SAE	-0,1 ÷ 3,8	80 x 80 x 65 mm	0,3 kg



OIL-FILLED PRESSURE GAUGES Ø60 CLASS 1.6

Rear connection mounting flange and stainless steel case

Code	Model	Dial	Connections	Pressure MPa	Dimensions	Weight
07011018	ML60/18C4FA/A8	A8	1/4" SAE	-0,1 ÷ 1,8	80 x 80 x 65 mm	0,3 kg
07011019	ML60/38C4FA/A8	A8	1/4" SAE	-0,1 ÷ 3,8	80 x 80 x 65 mm	0,3 kg
07011046	ML60/38C4FA/A4	A4	1/4" SAE	-0,1 ÷ 3,8	80 x 80 x 65 mm	0,3 kg
07011047	ML60/53C4FA/A4	A4	1/4" SAE	-0,1 ÷ 5,3	80 x 80 x 65 mm	0,3 kg
07011054	ML60/18C4FA/E1	E1	1/4" SAE	-0,1 ÷ 1,8	80 x 80 x 65 mm	0,3 kg
07011055	ML60/38C4FA/E1	E1	1/4" SAE	-0,1 ÷ 3,8	80 x 80 x 65 mm	0,3 kg
07011020	ML60/18C4FA/U		1/4" SAE	-0,1 ÷ 1,8	80 x 80 x 65 mm	0,3 kg
07011053	ML60/38C4FA/U		1/4" SAE	-0,1 ÷ 3,8	80 x 80 x 65 mm	0,3 kg



OIL-FILLED PRESSURE GAUGES Ø60 CLASS 1.6

Radial connection mounting flange and stainless steel case

Code	Model	Dial	Connections	Pressure MPa	Dimensions	Weight
07011021	ML60/18R4FP/A8	A8	1/4" SAE	-0,1 ÷ 1,8	90 x 95 x 65 mm	0,3 kg
07011022	ML60/38R4FP/A8	A8	1/4" SAE	-0,1 ÷ 3,8	90 x 95 x 65 mm	0,3 kg
07011048	ML60/38R4FP/A4	A4	1/4" SAE	-0,1 ÷ 3,8	90 x 95 x 65 mm	0,3 kg
07011049	ML60/53R4FP/A4	A4	1/4" SAE	-0,1 ÷ 5,3	90 x 95 x 65 mm	0,3 kg
07011058	ML60/18R4FP/E1	E1	1/4" SAE	-0,1 ÷ 1,8	80 x 80 x 65 mm	0,3 kg
07011059	ML60/38R4FP/E1	E1	1/4" SAE	-0,1 ÷ 3,8	80 x 80 x 65 mm	0,3 kg
07011023	ML60/18R4FP/U		1/4" SAE	-0,1 ÷ 1,8	90 x 95 x 65 mm	0,3 kg



1 MPa=10 bar

CERTIFIABLE SAMPLE PRESSURE GAUGE



LEO2/101

Certifiable reference pressure gauge for refrigerant fluids

- High reading clarity.
- Compact and robust construction.
- Battery-powered operation with up to 1000 hours of autonomy.
- Option to set different pressure units (bar, mbar, hPa, kPa, MPa, PSI, kp/cm²).
- Zero adjustment via push button.
- Automatic shut-off.
- Min/Max value display.

APPLICATIONS:

- Industrial applications.
- Laboratory applications.
- Calibration services.

Code	Model	Description
07151005	LEO2/101	Certifiable reference pressure gauge

Code	Dimensions	Weight
07151005	125 x 95 x 40 mm	0,2 kg

TECHNICAL FEATURES

Absolute pressure range	0...101 bar
Accuracy	0,1 %FS
Resolution	0.02 bar
Compensated range	10...50°C
Storage/operating temperature	-20 ÷ 70°C / -10 ÷ 60°C
Protection rating	IP 65
Connection	1/4" GAS
Battery	3V CR2032
Battery life	Ca. 1000 ore
Dimensions	59 x 95 x 32 mm



Calibration

Code	Description
09053008	Calibration report ref. Accredia for DV-2 COOL/101

XO12/A

“Spiralato” thermoplastic capillary tube 2x5,9

Practical and effective system for performing precision readings in pressure gauges, connecting sensors and valves.

Made of thermoplastic material perfectly compatible with physical characteristics of CFC, HCF, HFC refrigerants.

The braid in polyester fibre (PET) placed between the antiabrasion polyurethane (TPU) and the polyamide (PA) at the core give the tube an excellent mechanical resistance. The antiabrasion polyurethane (TPU) protects it from wear and tear.

TECHNICAL FEATURES

Outside diameter	5,9 mm
Inner diameter	2,1 mm
Core material	Polyamide (PA) compatible with refrigerant fluids
Outer covering	Antiabrasions polyurethane (TPU)
Stiffening	Polyester fiber (PET)
Refrigerants	CFC-HCFC-HFC-HC-HFO
Max.operating pressure	120 bar (12 MPa)
Working temperature	-45 ÷ +130°C
Min. radius of curvature	15 mm
Packaging (coil)	50 mt
Weight	28 g/m



Thermoplastic capillary tube assembled - 180°x180°

Code	Model	Connections	Length	Min. Qty
06050010	XO12SS/4-4/300	1/4" SAE	300 mm	20
06050066	XO12SS/4-4/450	1/4" SAE	450 mm	20
06050012	XO12SS/4-4/600	1/4" SAE	600 mm	20
06050026	XO12SS/4-4/750	1/4" SAE	750 mm	20
06050013	XO12SS/4-4/1000	1/4" SAE	1000 mm	20
06050014	XO12SS/4-4/1500	1/4" SAE	1500 mm	10
06050015	XO12SS/4-4/2000	1/4" SAE	2000 mm	10

For quantity, hoses of any length and/or different types of fittings can be supplied on request.



Thermoplastic capillary tube assembled - 180°x90°

Code	Model	Connections	Length	Min. Qty
06050067	XO12SL/4-4/300	1/4" SAE	300 mm	20
06050068	XO12SL/4-4/450	1/4" SAE	450 mm	20
06050069	XO12SL/4-4/600	1/4" SAE	600 mm	20
06050070	XO12SL/4-4/750	1/4" SAE	750 mm	20
06050071	XO12SL/4-4/1000	1/4" SAE	1000 mm	20
06050072	XO12SL/4-4/1500	1/4" SAE	1500 mm	10
06050073	XO12SL/4-4/2000	1/4" SAE	2000 mm	10

For quantity, hoses of any length and/or different types of fittings can be supplied on request.

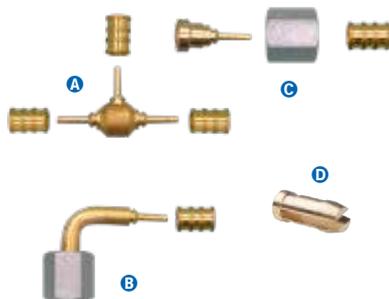


CAPILLARY TUBE



Coil of capillary tube

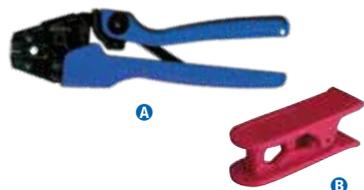
Code	Model	Length	Dimensions	Weight
06050006	X012/A	50 m	250 x 250 x 50 mm	1,4 kg



Fittings to be pressed for capillary tube 2x5,9

Ref	Code	Model	Description	
A	05060022010	WCG210T-T0	Kit of "T" fittings with 3 nuts	10
B	05060021001	WCG210/90	Kit of 90° fittings with 1 nut	10
C	06101005	WCG250	Kit of straight fittings with 1 nut	50
D	14023017001	DM 245K	Valve openers for WCG250 - WCG210/90 kit	10

Ref	Code	Connections	Dimensions	Weight
A	05060022010	-	140 x 100 x 20 mm	0,15 kg
B	05060021001	1/4"SAE	140 x 100 x 20 mm	0,20 kg
C	06101005	1/4"SAE	160 x 150 x 10 mm	0,80 kg
D	14023017001	-	160 x 90 x 10 mm	0,01 kg



Tools for capillary hose

The crimping manual tools allow to fasten WCG250 fittings easily to the thermo-plastic capillary tube and ensures a perfect seal.

Ref	Code	Model	Description	Dimensions	Weight
A	08006010	RXA003	Crimping manual tool	340 x 120 x 30 mm	0,70 kg
B	08002012	1751	Plastic tube cutter	80 x 20 x 20 mm	0,03 kg



Complete kit

Supplied: 50 fittings 1/4"SAE, 10 valve openers, 1 crimping tool and 1 tube cutter.

Code	Model	Length	Dimensions	Weight
06050006	X012/A	50 m	250 x 250 x 50 mm	1,4 kg



Spare parts and accessories

Code	Description
14029005	Empty plastic case (465 x 375 x 110 mm)

PTFE HOSES

High Pressure PTFE hoses with stainless braid and thermoplastic over coating

The stainless steel metallic braid guarantees high performances at high pressures.

These features make these hoses suitable for use with R744 (CO₂).

The external thermoplastic coating guarantees high wear resistance.

TECHNICAL FEATURES

Outside diameter	7,5 mm - 8,6 mm
Inner diameter	5 mm - 3/16"
Core material	PTFE compatible with refrigerant fluids
Outer covering	Thermoplastic elastomer
Refrigerants	R744-CFC-HCFC-HFC-HC-HFO
Max.operating pressure	200 bar (20 MPa)
Working temperature	-40 ÷ +120°C
Min. radius of curvature	40 mm
Weight	165 g/m



Assembled hoses - 180°x180°

Code	Model	Connections	Length	Min. Qty
06150013	W-COSS/4-4/300	1/4" SAE	300 mm	20
06150014	W-COSS/4-4/450	1/4" SAE	450 mm	20
06150015	W-COSS/4-4/600	1/4" SAE	600 mm	20
06150016	W-COSS/4-4/750	1/4" SAE	750 mm	10
06150017	W-COSS/4-4/1000	1/4" SAE	1000 mm	10
06150018	W-COSS/4-4/1500	1/4" SAE	1500 mm	10

For quantity, hoses of any length and/or different types of fittings can be supplied on request.



Assembled hoses - 180°x90°

Code	Model	Connections	Length	Min. Qty
06150003	W-COSL/4-4/300	1/4" SAE	300 mm	20
06150004	W-COSL/4-4/450	1/4" SAE	450 mm	20
06150005	W-COSL/4-4/600	1/4" SAE	600 mm	20
06150006	W-COSL/4-4/750	1/4" SAE	750 mm	10
06150007	W-COSL/4-4/1000	1/4" SAE	1000 mm	10
06150008	W-COSL/4-4/1500	1/4" SAE	1500 mm	10

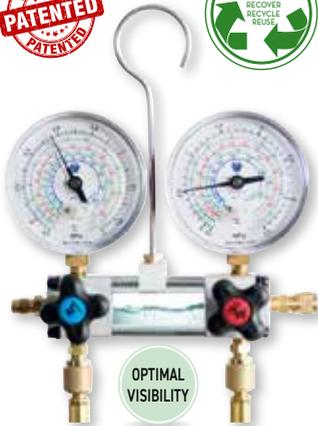
For quantity, hoses of any length and/or different types of fittings can be supplied on request.





SPY SERIES - VISUAL DIAGNOSIS MANIFOLD THE NEW STANDARD!

Why?



OPTIMAL
VISIBILITY

The information provided to date by the existing manifold on the market is based on pressures and temperatures. Important but incomplete information, since the standard sightglass does not allow us or only partially, to guess the passage of the refrigerant, its phase (liquid or vapour) and its quality.

How many times, after having a problem on a unit, have we questioned?

... what if I could have observed the presence of water or moisture before?

... what if I could have observed the state of the oil and its mixture with the refrigerant?

... what if I could have seen the presence of contaminants in the refrigerant?

The standard sightglass, incorporated in traditional manifolds, does not help us to obtain useful indications in this sense, and consequently do not help us in making a more complete diagnosis about the "health" of the system.



standard sightglass



How can SPY help us?

The ever-increasing importance of indications on the state of refrigerant and oils has led to design the new SPY WIGAM manifolds. The innovative SPY diagnostic manifolds, in order to help technicians in daily working, are equipped with a fully transparent central body representing the new frontier of these service equipment.

Here are some of the indications that can be obtained quickly and easily using SPY:

- Clearly show if we are working with refrigerant in the liquid or steam phase.
- Clearly show the presence of contaminants in the refrigerant.
- Show the miscibility state of the refrigerant with oil.



Cleaned
refrigerant



Oil and refrigerant
with good miscibility



Oil, additives and refrigerant
with good miscibility



Bad refrigerant oil
miscibility



Refrigerant and additive
contaminated by water



Compressor
burned

- Combine visual diagnosis with chemical analysis by taking oil samples.

SPY is now available
also in the 4-ways version
See page 64



Look at SPY VIDEO!



TRUST YOUR EYES!



HD HOSE

Reinforced HEAVY DUTY hose with low permeability barrier and wear-resistant coating



GY HOSE

Reinforced hose with low permeability barrier and coloured rubber coating



IVP 3/8 HOSE

Reinforced hose with low permeability barrier and black rubber coating



Read the WIGAM models

BALL VALVE	HOSE TYPE	CONNECTION	CONNECTION	CONNECTION	CONNECTION	LENGTH	COLOUR
V - with valve	GY	S - 180°	S - 180°	4 - 1/4" SAE	4 - 1/4" SAE	36 - 900 mm	B - blue
	HD	L - 90°	L - 90°	4M - 1/4" SAE male	4M - 1/4" SAE male	60 - 1500 mm	R - red
	CSA	A - 45°	A - 45°	5 - 5/16" SAE	5 - 5/16" SAE	72 - 1800 mm	Y - yellow
	IVP			6 - 3/8" SAE	6 - 3/8" SAE		



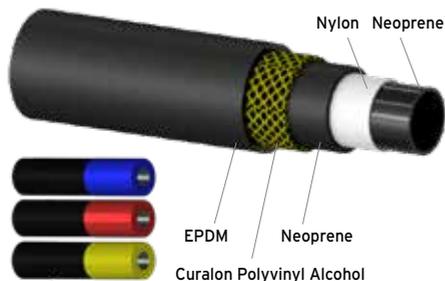
"GY" flexible hose with valve, connections straight-straight, 1/4" x 1/4", 1500 mm, red

"HD" HOSES

"HD" HOSES

Reinforced HEAVY DUTY hose with low permeability barrier and wear-resistant coating SAE J2196 - SAE J2888 - SAE J2064

In addition to the models mentioned below, hoses of any length and with any type of connection can be delivered.



TECHNICAL FEATURES

In accordance with	SAE J2196/R134a - SAE J2888/R1234yf - SAE J2064/R134a
Working pressure	5,2 MPa
Bursting pressure	27,6 MPa
Internal diameter	1/4"
Working temperature	-30÷+125°C



Connections on demand

- 1/2"-16ACME x 1/2"-16ACME
- 1/2"-16ACME x M14 x 1.5
- M12x1.5 x M12x1.5

5/16"



Kit of 3 flexible hoses with intermediate valve, connections straight x 45° with depressor with blister

Code	Model	Length	Connections	Dimensions	Weight
06010016	3HDSA/5-5/32V4/BRY	900 mm	5/16" SAE	250 x 250 x 50 mm	0,8 kg
06010010	3HDSA/5-5/56V4/BRY	1500 mm	5/16" SAE	250 x 250 x 50 mm	0,8 kg

5/16"



Kit of 3 flexible hoses, connections straight x 45° with depressor with blister

Code	Model	Length	Connections	Dimensions	Weight
06010017	3HDSA/5-5/36/BRY	900 mm	5/16" SAE	250 x 250 x 50 mm	0,8 kg
06010018	3HDSA/5-5/60/BRY	1500 mm	5/16" SAE	250 x 250 x 50 mm	0,8 kg

1/4"



Kit of 3 flexible hoses, connections straight x 45° with depressor with blister

Code	Model	Length	Connections	Dimensions	Weight
06010015	3HDSA/4-4/32V4/BRY	900 mm	1/4" SAE	250 x 250 x 50 mm	0,8 kg
06010011	3HDSA/4-4/56V4/BRY	1500 mm	1/4" SAE	250 x 250 x 50 mm	0,8 kg

1/4"



Kit of 3 flexible hoses, connections straight x 45° with depressor with blister

Code	Model	Length	Connections	Dimensions	Weight
06010005	3HDSA/4-4/36/BRY	900 mm	1/4" SAE	250 x 250 x 50 mm	0,8 kg
06010003	3HDSA/4-4/48/BRY	1200 mm	1/4" SAE	250 x 250 x 50 mm	0,8 kg
06010004	3HDSA/4-4/60/BRY	1500 mm	1/4" SAE	250 x 250 x 50 mm	0,8 kg
06010002	3HDSA/4-4/72/BRY	1800 mm	1/4" SAE	250 x 250 x 50 mm	0,8 kg

"HD" HOSES

Flexible hose with intermediate valve, connections straight x 45° with depressor

Code	Model	Length	Connections	Dimensions	Weight
06002084	HDSA/5-5/32V4	900 mm	5/16" SAE	250 x 250 x 50 mm	0,3 kg
06002022	HDSA/5-5/56V4	1500 mm	5/16" SAE	250 x 250 x 50 mm	0,3 kg
06002083	HDSA/5-5/68V4	1800 mm	5/16" SAE	250 x 250 x 50 mm	0,3 kg
06002070	HDSA/4-4/32V4	900 mm	1/4" SAE	250 x 250 x 50 mm	0,3 kg
06002023	HDSA/4-4/56V4	1500 mm	1/4" SAE	250 x 250 x 50 mm	0,3 kg
06002057	HDSA/4-4/68V4	1800 mm	1/4" SAE	250 x 250 x 50 mm	0,3 kg

For colour choice, add to the end of the code:



Flexible hose, connections straight x 45° with depressor

Code	Model	Length	Connections	Dimensions	Weight
06002085	HDSA/5-5/36	900 mm	5/16" SAE	250 x 250 x 50 mm	0,3 kg
06002086	HDSA/5-5/60	1500 mm	5/16" SAE	250 x 250 x 50 mm	0,3 kg
06002097	HDSA/5-5/72	1800 mm	5/16" SAE	250 x 250 x 50 mm	0,3 kg
06002008	HDSA/4-4/36	900 mm	1/4" SAE	250 x 250 x 50 mm	0,3 kg
06002004	HDSA/4-4/60	1500 mm	1/4" SAE	250 x 250 x 50 mm	0,3 kg
06002001	HDSA/4-4/72	1800 mm	1/4" SAE	250 x 250 x 50 mm	0,3 kg

For colour choice, add to the end of the code:



Flexible hose with final valve, connections straight x straight with depressor

Code	Model	Length	Connections	Dimensions	Weight
06007089	V/HDSS/5-5/36	900 mm	5/16" SAE	250 x 250 x 50 mm	0,4 kg
06007078	V/HDSS/5-5/60	1500 mm	5/16" SAE	250 x 250 x 50 mm	0,4 kg
06007098	V/HDSS/5-5/72	1800 mm	5/16" SAE	250 x 250 x 50 mm	0,4 kg
06007012	V/HDSS/4-4/36	900 mm	1/4" SAE	250 x 250 x 50 mm	0,4 kg
06007013	V/HDSS/4-4/60	1500 mm	1/4" SAE	250 x 250 x 50 mm	0,4 kg
06007014	V/HDSS/4-4/72	1800 mm	1/4" SAE	250 x 250 x 50 mm	0,4 kg
06007022	V/HDSS/6-6/36	900 mm	3/8" SAE	250 x 250 x 50 mm	0,4 kg
06007023	V/HDSS/6-6/60	1500 mm	3/8" SAE	250 x 250 x 50 mm	0,4 kg
06007024	V/HDSS/6-6/72	1800 mm	3/8" SAE	250 x 250 x 50 mm	0,4 kg

For colour choice, add to the end of the code:



Flexible hoses, Connections straight x straight

Code	Model	Length	Connections	Dimensions	Weight
06001184	HDSS/5-5/36	900 mm	5/16" SAE	250 x 250 x 50 mm	0,8 kg
06001182	HDSS/5-5/60	1500 mm	5/16" SAE	250 x 250 x 50 mm	0,8 kg
06001185	HDSS/5-5/72	1800 mm	5/16" SAE	250 x 250 x 50 mm	0,8 kg
06001017	HDSS/4-4/36	900 mm	1/4" SAE	250 x 250 x 50 mm	0,8 kg
06001011	HDSS/4-4/60	1500 mm	1/4" SAE	250 x 250 x 50 mm	0,8 kg
06001014	HDSS/4-4/72	1800 mm	1/4" SAE	250 x 250 x 50 mm	0,8 kg
06001024	HDSS/6-6/36	900 mm	3/8" SAE	250 x 250 x 50 mm	0,8 kg
06001026	HDSS/6-6/60	1500 mm	3/8" SAE	250 x 250 x 50 mm	0,8 kg
06001027	HDSS/6-6/72	1800 mm	3/8" SAE	250 x 250 x 50 mm	0,8 kg

For colour choice, add to the end of the code:



3/8 hoses without depressor.

"HD" HOSES



For colour choice, add to the end of the code:



Flexible hoses, Connections straight x 90° with depressor

Code	Model	Length	Connections	Dimensions	Weight
06003130	HDSL/5-5/36	900 mm	5/16" SAE	250 x 250 x 50 mm	0,8 kg
06003131	HDSL/5-5/60	1500 mm	5/16" SAE	250 x 250 x 50 mm	0,8 kg
06003132	HDSL/5-5/72	1800 mm	5/16" SAE	250 x 250 x 50 mm	0,8 kg
06003011	HDSL/4-4/36	900 mm	1/4" SAE	250 x 250 x 50 mm	0,8 kg
06003005	HDSL/4-4/60	1500 mm	1/4" SAE	250 x 250 x 50 mm	0,8 kg
06003003	HDSL/4-4/72	1800 mm	1/4" SAE	250 x 250 x 50 mm	0,8 kg



For colour choice, add to the end of the code:



Flexible hoses with male valve, connections straight x 45° with depressor

Code	Model	Length	Connections	Dimensions	Weight
06008006	V/HDSA/4M-4/6	150 mm	1/4" SAE	250 x 250 x 50 mm	0,2 kg



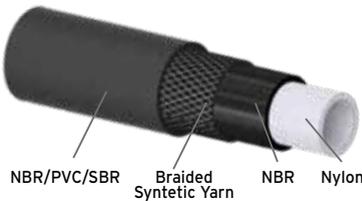
For colour choice, add to the end of the code:



Flexible hoses, connections 1/4"SAE F 90° x 1/4"SAE M with depressor

Code	Model	Length	Connections	Dimensions	Weight
06003020	HDSL/4M-4/6	150 mm	1/4" SAE	250 x 250 x 50 mm	0,2 kg
06003022	HDSL/4M-4/12	300 mm	1/4" SAE	250 x 250 x 50 mm	0,2 kg
06003076	HDSL/4M-4/24	600 mm	1/4" SAE	250 x 250 x 50 mm	0,2 kg

"IVP" 3/8 HOSES



IVP HOSE

3/8" reinforced hose with low-permeability barrier and black rubber coating SAE J2196.

In addition to the models listed below, hoses can be supplied in any length.

TECHNICAL FEATURES

Internal diameter	9,5mm (+/- 0,6mm) - 3/8"
Working pressure	4,2 MPa
Burst pressure	21 MPa
Operating temperature	-40 ÷ +120°C



Code	Model	Length	Connections
06141001	IVPSS/6-6/36	900 mm	3/8" SAE
06141002	IVPSS/6-6/60	1500 mm	3/8" SAE
06141003	IVPSS/6-6/120	3000 mm	3/8" SAE

3/8 hoses without depressor.

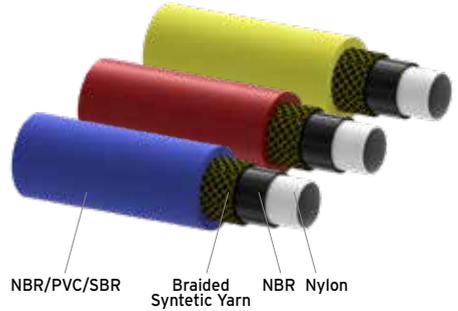
"GY" HOSES

Reinforced hose with low permeability barrier and coloured rubber coating SAE J2196 - SAEJ2888

In addition to the models mentioned below, hoses of any length and with any type of connection can be delivered.

TECHNICAL FEATURES

Internal diameter	1/4"
Working pressure	5,6 MPa
Burst pressure	28 MPa
Operating temperature	-40 ÷ +120°C



Connections on demand

- 1/2"-16ACME x 1/2"-16ACME
- 1/2"-16ACME x M14x1.5
- M12x1.5 x M12x1.5

Kit of 3 flexible hoses with intermediate valve, connections straight x 45° with depressor with blister

Code	Model	Length	Connections	Dimensions	Weight
06080013	3GYSA/5-5/32V4/BRY	900 mm	5/16" SAE	250 x 250 x 50 mm	0,8 kg
06080010	3GYSA/5-5/56V4/BRY	1500 mm	5/16" SAE	250 x 250 x 50 mm	0,8 kg



5/16"

Kit of 3 flexible hoses, connections straight x 45° with depressor with blister

Code	Model	Length	Connections	Dimensions	Weight
06080005	3GYSA/5-5/36/BRY	900 mm	5/16" SAE	250 x 250 x 50 mm	0,8 kg
06080006	3GYSA/5-5/48/BRY	1200 mm	5/16" SAE	250 x 250 x 50 mm	0,8 kg
06080007	3GYSA/5-5/60/BRY	1500 mm	5/16" SAE	250 x 250 x 50 mm	0,8 kg



5/16"

Kit of 3 flexible hoses, connections straight x 45° with depressor with blister

Code	Model	Length	Connections	Dimensions	Weight
06080014	3GYSA/4-4/32V4/BRY	900 mm	1/4" SAE	250 x 250 x 50 mm	0,8 kg
06080009	3GYSA/4-4/56V4/BRY	1500 mm	1/4" SAE	250 x 250 x 50 mm	0,8 kg



1/4"

Kit of 3 flexible hoses, connections straight x 45° with depressor with blister

Code	Model	Length	Connections	Dimensions	Weight
06080001	3GYSA/4-4/36/BRY	900 mm	1/4" SAE	250 x 250 x 50 mm	0,8 kg
06080002	3GYSA/4-4/48/BRY	1200 mm	1/4" SAE	250 x 250 x 50 mm	0,8 kg
06080003	3GYSA/4-4/60/BRY	1500 mm	1/4" SAE	250 x 250 x 50 mm	0,8 kg
06080004	3GYSA/4-4/72/BRY	1800 mm	1/4" SAE	250 x 250 x 50 mm	0,8 kg



1/4"

"GY" HOSES



For colour choice, add to the end of the code:

- 001
- 002
- 003

Flexible hoses with intermediate valve, connections straight x 45° with depressor

Code	Model	Length	Connections	Dimensions	Weight
06072036	GYSA/5-5/32V4	900 mm	5/16" SAE	250 x 250 x 50 mm	0,4 kg
06072013	GYSA/5-5/56V4	1500 mm	5/16" SAE	250 x 250 x 50 mm	0,4 kg
06072037	GYSA/5-5/68V4	1800 mm	5/16" SAE	250 x 250 x 50 mm	0,4 kg
06072038	GYSA/4-4/32V4	900 mm	1/4" SAE	250 x 250 x 50 mm	0,4 kg
06072012	GYSA/4-4/56V4	1500 mm	1/4" SAE	250 x 250 x 50 mm	0,4 kg
06072039	GYSA/4-4/68V4	1800 mm	1/4" SAE	250 x 250 x 50 mm	0,4 kg



For colour choice, add to the end of the code:

- 001
- 002
- 003

Flexible hose, connections straight x 45° with depressor

Code	Model	Length	Connections	Dimensions	Weight
06077004	GYSA/5-5/36	900 mm	5/16" SAE	250 x 250 x 50 mm	0,4 kg
06072005	GYSA/5-5/60	1500 mm	5/16" SAE	250 x 250 x 50 mm	0,4 kg
06072006	GYSA/5-5/72	1800 mm	5/16" SAE	250 x 250 x 50 mm	0,4 kg
06072001	GYSA/4-4/36	900 mm	1/4" SAE	250 x 250 x 50 mm	0,4 kg
06072002	GYSA/4-4/60	1500 mm	1/4" SAE	250 x 250 x 50 mm	0,4 kg
06072003	GYSA/4-4/72	1800 mm	1/4" SAE	250 x 250 x 50 mm	0,4 kg



For colour choice, add to the end of the code:

- 001
- 002
- 003

Flexible hose with final valve, connections straight x straight with depressor

Code	Model	Length	Connections	Dimensions	Weight
06077004	V/GYSS/5-5/36	900 mm	5/16" SAE	250 x 250 x 50 mm	0,4 kg
06077005	V/GYSS/5-5/60	1500 mm	5/16" SAE	250 x 250 x 50 mm	0,4 kg
06077006	V/GYSS/5-5/72	1800 mm	5/16" SAE	250 x 250 x 50 mm	0,4 kg
06077001	V/GYSS/4-4/36	900 mm	1/4" SAE	250 x 250 x 50 mm	0,4 kg
06077002	V/GYSS/4-4/60	1500 mm	1/4" SAE	250 x 250 x 50 mm	0,4 kg
06077003	V/GYSS/4-4/72	1800 mm	1/4" SAE	250 x 250 x 50 mm	0,4 kg



For colour choice, add to the end of the code:

- 001
- 002
- 003

Flexible hoses, connections "straight - straight"

Code	Model	Length	Connections	Dimensions	Weight
06071007	GYSS/5-5/36	900 mm	5/16" SAE	250 x 250 x 50 mm	0,4 kg
06071008	GYSS/5-5/60	1500 mm	5/16" SAE	250 x 250 x 50 mm	0,4 kg
06071009	GYSS/5-5/72	1800 mm	5/16" SAE	250 x 250 x 50 mm	0,4 kg
06071001	GYSS/4-4/36	900 mm	1/4" SAE	250 x 250 x 50 mm	0,4 kg
06071002	GYSS/4-4/60	1500 mm	1/4" SAE	250 x 250 x 50 mm	0,4 kg
06071003	GYSS/4-4/72	1800 mm	1/4" SAE	250 x 250 x 50 mm	0,4 kg
06071036	GYSS/6-6/36	900 mm	3/8" SAE	250 x 250 x 50 mm	0,4 kg
06071055	GYSS/6-6/60	1500 mm	3/8" SAE	250 x 250 x 50 mm	0,4 kg
06071076	GYSS/6-6/72	1800 mm	3/8" SAE	250 x 250 x 50 mm	0,4 kg

"GY" HOSES

Flexible hoses, connections straight x 90° with depressor

Code	Model	Length	Connections	Dimensions	Weight
06073004	GYSL/5-5/36	900 mm	5/16" SAE	250 x 250 x 50 mm	0,4 kg
06073005	GYSL/5-5/60	1500 mm	5/16" SAE	250 x 250 x 50 mm	0,4 kg
06073006	GYSL/5-5/72	1800 mm	5/16" SAE	250 x 250 x 50 mm	0,4 kg
06073001	GYSL/4-4/36	900 mm	1/4" SAE	250 x 250 x 50 mm	0,4 kg
06073002	GYSL/4-4/60	1500 mm	1/4" SAE	250 x 250 x 50 mm	0,4 kg
06073003	GYSL/4-4/72	1800 mm	1/4" SAE	250 x 250 x 50 mm	0,4 kg

For colour choice, add to the end of the code:



Flexible hose with male valve, connections straight x 45° with depressor

Code	Model	Length	Connections	Dimensions	Weight
06078002	V/GYSA/5M-5/6	150 mm	5/16" SAE	250 x 250 x 50 mm	0,4 kg
06078001	V/GYSA/4M-4/6	150 mm	1/4" SAE	250 x 250 x 50 mm	0,4 kg

For colour choice, add to the end of the code:



Flexible hose, connections 1/4"SAE F 90° x 1/4"SAE M with depressor

Code	Model	Length	Connections	Dimensions	Weight
06073013	GYSL/4M-4/6	150 mm	1/4" SAE	250 x 250 x 50 mm	0,4 kg
06073014	GYSL/4M-4/12	300 mm	1/4" SAE	250 x 250 x 50 mm	0,4 kg
06073015	GYSL/4M-4/24	600 mm	1/4" SAE	250 x 250 x 50 mm	0,4 kg

For colour choice, add to the end of the code:



Spare parts for HD, GY and IVP hoses



Ref	Code	Model	Description	
A	14020014001	G19020	Kit (10 pcs) gaskets for 1/4"SAE, 1/2"-16ACME in NBR	10
	14020048001	G19516	Kit (10 pcs) gaskets for 5/16"SAE	10
B	14023001001	D19302	Kit (10pcs) valve openers for 1/4" SAE and 5/16" SAE hoses	10
C	14020015001	G19030	Kit (10 pcs) gaskets for 3/8" SAE hoses	10
D	14020071001	G19020/T	Kit (10pcs) PTFE gaskets for 1/4" SAE, 1/2"-16ACME hoses	10
E	08008059	LOCK-VALVE-CARE	Gaskets easy replacement tool for Lock-Valve, EW and flexible hoses	-
F	08008065	LOCK-VALVE-CARE-WIG	Counter display with 10 pcs of lock-valve-care	10

"CSA" HOSES

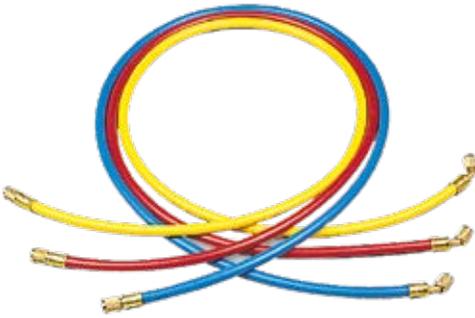
"CSA" HOSES

Kit of three "CSA" hoses with depressor.

Each hose has a different colour, respectively blue, red and yellow.

Connections: straight x 45°.

Blister packaged.



Code	Model	Length	Connections
06040005	3CSA/4-4/60/BRY	1500 mm	1/4" SAE
06040007	3CSA/5-5/60/BRY	1500 mm	5/16" SAE
06040009	3CSA/4-5/60/BRY	1500 mm	1/4" X 5/16" SAE

Code	Pressure operating	Pressure bursting	Dimensions	Weight
06040005	4.2 MPa	20.7 MPa	250 x 250 x 50 mm	0,8 kg
06040007	5.5 MPa	27.6 MPa	250 x 250 x 50 mm	0,8 kg
06040009	5.5 MPa	27.6 MPa	250 x 250 x 50 mm	0,8 kg



Spare parts for CSA hoses



A



B



C

D



Ref	Code	Model	Description	
A	14020113001	G-CSA4-17	Kit (10pcs) of PTFE gaskets for 1/4" SAE hoses	10
A	14020114001	G-CSA5-17	Kit (10pcs) of NBR gaskets for 1/4" SAE, 1/2"-16ACME hoses	10
B	14020115001	D-CSA-17	Kit (10pcs) valve openers for CSA hoses	10
C	08008059	LOCK-VALVE-CARE	Gaskets easy replacement tool for Lock-Valve, EW and flexible hoses	-
D	08008065	LOCK-VALVE-CARE-WIG	Counter display with 10 pcs of lock-valve-care	10

KOMPACT-HFC-TOUCH/180-100

Automatic test, vacuum and charging station for service operations or small productions

The KOMPACT range is available in the following versions:

- KOMPACT HFC: for HFCs (including A2L) with 100 kg scale.
- KOMPACT ATEX (see page 106): also suitable for HC (R290, R600a) and precision charging.

The KOMPACT-HFC unit features:

- Touchscreen digital display
- Database with more than 50 refrigerants.
- Suitable for CFC, HCFC, HFC (R32 e R1234yf included) refrigerants.
- Built-in independent ventilation system.
- High precision injectin system.
- 180lt high vacuum two-stage pump.
- Integrated precision vacuum gauge.
- 100Kg scale fixed to the frame and equipped with cylinder locking devices.
- Integrated compartments to accommodate and transport cylinders or cartridges of Refrigerant and Nitrogen.
- Handle and wheels for easy handling.
- Supports for bottles 1/4 "SAE, 5/16" SAE, 1/2 "16 ACME Sx.
- Built-in Wi-Fi kit for 4.0 ready interconnection.



Bottles not included



Code	Model	Dimensions	Weight
01090042	KOMPACT-HFC-TOUCH/180-100	400 x 450 x 815 mm	37,50 kg



Calibration

Code	Description
09053052	Calib. report ref. Accredia for KOMPACT-HFC and KOMPACT-ATEX

TECHNICAL FEATURES

Refrigerants	CFC, HCFC, HFC, HFO
Two-stage pump	RS9D (180l/min)
Scale	100 kg
Vacuum range	1 ÷ 600Pa
Charging accuracy	±5g <5kg / ±0,1% >5kg
Power supply	230V 50/60Hz
Connections	1/4" SAE with valve + Supports for bottles 1/4" SAE, 5/16"SAE, 1/2" 16 ACME Sx



AUTOMATIC FUNCTIONS:

- Nitrogen test for leak test.
 - Test with azoidro mixture for leak test.
 - Nitrogen discharge.
 - Recovery management (recovery unit not INCLUDED).
 - Vacuum.
 - Vacuum test and pressure rising test.
 - Refrigerant charge.
 - 2 automatic cycles:
- | | |
|--------------------|------------------------|
| cycle 1 | cycle 2 |
| Nitrogen test | Recovery |
| Vacuum and test | vacuum/Nitrogen test |
| Refrigerant charge | Vacuum and test vacuum |
| | Refrigerant charge |



Accessoires

Code	Model	Description	Female connection	Male connection	Min. Qty
05059049001	LOCK-VALVE/1/4-WIG	Access valve	1/4" SAE	1/4" SAE	-
05059053001	LOCK-VALVE/5-4-WIG	Access valve	5/16" SAE	1/4" SAE	-
06077002001	V/GYSS/4-4/60/B	Flexible hose 1500mm with valve	2 x 1/4" SAE	-	-
10002017	AZ200-50	Heavy duty nitrogen regulator 200-50 bar	-	-	-
11001060	BN2/1-TPED	Nitrogen cartridge 950cc. - 110bar	-	-	12
11003011	BAZ50/1	Nitrogen 5 L cylinder	-	-	-
11001112	AZOIDRO	Azoidro cartridge 1L - 110bar	-	-	12
11003020	AZOIDRO/5	Azoidro 5 L cylinder	-	-	-

VACUUM AND CHARGING KIT



CADDY X-MAN 5/100

Universal kit for vacuum and charge with digital manifold and scale (5 or 100 kg)

Possibility to work with over 50 refrigerants

Small dimensions and very easy to carry

Standard equipment:

- 46 l/min or 110 l/min dual stage vacuum pump with solenoid valve and vacuum gauge.
- Digital manifold X-MAN-400 complete with 2 clamp probes, 3 flexible hoses, 1 flexible hose for vacuum IperVac+ hose, 4 Lock-Valve (2 for R32 + 2 for all refrigerants).
- Mineral oil bottle.

CADDY X-MAN/5 kg version

- 5 kg electronic scale with 1g resolution.
- 3 supports for bottles (1/4" x 1/4" - 5/16" x 1/4" - 1/2"-16 ACME SX x1/4" SAE).

CADDY X-MAN/100 kg version

- 100 kg electronic scale with 5g resolution.

BASIC KIT CADDY X-MAN



Code	Model
01010006007	CADDY46D/5/X-MAN400
01010015005	CADDY110D/5-X-MAN400
01010006008	CADDY46D/100/X-MAN400
01010015006	CADDY110D/100-X-MAN400

Code	Dimensions	Weight
01010006007	630 x 400 x 450 mm	19 kg
01010015005	630 x 400 x 450 mm	23 kg
01010006008	630 x 400 x 450 mm	22 kg
01010015006	630 x 400 x 450 mm	26 kg



CADDY X-MAN SCALE/100KG



CADDY X-MAN SCALE/5KG

TECHNICAL FEATURES

	CADDY 46D/5/X-MAN400	CADDY 110D/5/X-MAN400	CADDY 46D/100/X-MAN400	CADDY 110D/100/X-MAN400
Scale capacity	5 kg	5 kg	100 kg	100 kg
Pump volume	46 lt/min	110 lt/min	46 lt/min	110 lt/min
Ultimate vacuum	1x10 ⁻² mbar	1x10 ⁻² mbar	1x10 ⁻² mbar	1x10 ⁻² mbar

CADDY 5/100

Universal kit for vacuum and charge with scale (5 or 100 kg)

Possibility to work with R32-R410A and R22-R134a-R404A-R407C.

Small dimensions and very easy to carry .

Quick coupling system for vacuum pump-solenoid valve-vacuum gauge -manifold assembly.

Standard equipment:

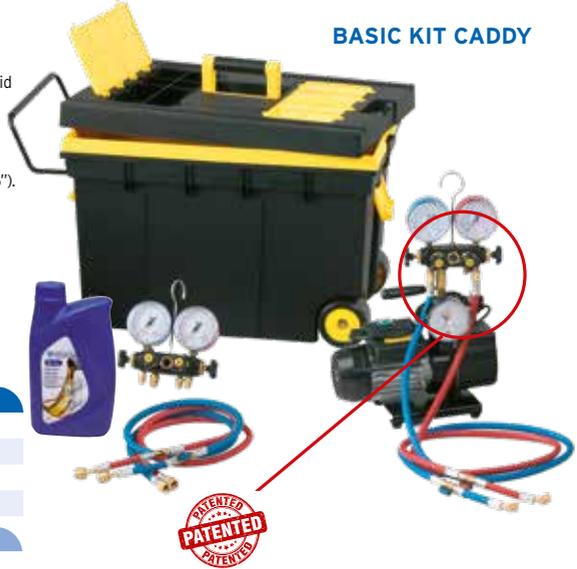
- 46 l/min or 110 l/min dual stage vacuum pump with solenoid valve and vacuum gauge.
- 2 manifolds with scales A4 and A6, class 1.
- Bottle of mineral oil.
- 4 flexible hoses 1500 mm with intermediate valve (1/4" and 5/16").

CADDY 5 kg version

- 5 kg electronic scale with 1g resolution.
- 3 supports for bottles (1/4" x 1/4" - 5/16" x 5/16" - 1/2"-16 ACME SX x5/16" SAE).

CADDY 100 kg version

- 100 kg electronic scale with 5g resolution.
- 2 flexible hoses 900 mm yellow (1/4" + 5/16").



Code	Model
01010006001	CADDY 46D/5
01010015001	CADDY110D/5
01010006002	CADDY46D/100
01010015002	CADDY110D/100

Code	Dimensions	Weight
01010006001	630 x 400 x 450 mm	19 kg
01010015001	630 x 400 x 450 mm	23 kg
01010006002	630 x 400 x 450 mm	22 kg
01010015002	630 x 400 x 450 mm	26 kg



FOR 5 KG CADDY



FOR 100 KG CADDY

TECHNICAL FEATURES

	CADDY 46D/5	CADDY 110D/5	CADDY 46D/100	CADDY 110D/100
Scale capacity	5 kg	5 kg	100 kg	100 kg
Pump volume	46 lt/min	110 lt/min	46 lt/min	110 lt/min
Ultimate vacuum	1x10 ⁻² mbar	1x10 ⁻² mbar	1x10 ⁻² mbar	1x10 ⁻² mbar

VACUUM AND CHARGING KIT

REFRIGERANTS DIALS

A3 R600a A4 R410A-R32 A6 R22-R134a-R404A-R407C D6 R600a-R290-R1270



K-PGTB

Vacuum and charging system with electronic scale 5kg

The quick coupling system, patented by Wigam, for vacuum pump - solenoid valve - vacuum gauge - manifold assembly, allows to replace the manifold very quickly each time you need to operate with a different refrigerant and to have a very compact and easy to carry vacuum and charging station.

Standard equipment:

- 46 l double stage vacuum pump with female rigid swivel connection 3/8" SAE .
- 4-way manifold with Ø80 gauges, class 1.
- electronic scale up to 5 kg, resolution 1 gr
- 2 flexible hoses 1500 mm with intermediate valve.
- 1 vapour discharge hose (only versions A3 and D6)
- plastic case

Code	Model
01010001	K-PGTB-A4
01010002	K-PGTB-A6
01010013	K-PGTB-A3
01010014	K-PGTB-D6

Code	Dimensions	Weight
01010001	520 x 290 x 340 mm	19 kg
01010002	520 x 290 x 340 mm	22 kg
01010013	520 x 290 x 340 mm	22 kg
01010014	520 x 290 x 340 mm	25 kg

Bottles not included in the kit

TECHNICAL FEATURES

	K-PGTB-A4	K-PGTB-A6	K-PGTB-A3	K-PGTB-D6
Refrigerants	R410A-R32	R22-R134a-R404C-R407C	R600a	R600a-R290-R1270
Scale capacity	5 kg	5 kg	5 kg	5 kg
Pump volume	46 lt/min	46 lt/min	46 lt/min	46 lt/min
Ultimate vacuum	1x10 ² mbar	1x10 ² mbar	1x10 ² mbar	1x10 ² mbar
Connections	5/16" SAE	1/4" SAE	1/4" SAE	1/4" SAE
Supports	2 pz.	1 pz.	1 pz.	2 pz.

REFRIGERANT REFILLABLE BOTTLES - FULL

Bottle marked (European directive 2010/35/UE)
 Valve marked CE (European directive 2010/35/UE)
 Container made of steel (EN13322-1)
 Valve connections 17E (EN ISO1116-1) 25E (EN629-1)

WR1K/32

1 L refillable bottles with R32 refrigerant

Code	Model	Refrigerant	Connections	Refrigerant quantity	Min. Qty	Weight
11001127	WR1K/32	R32	1/2"-16ACME SX	800 gr	6	21 kg

Ref	Code	Model	Description	Connections
A	05002034001	121 RGAS-5-WIG	Valves	1/2-16ACME SX x 5/16"SAE M
B	05104049		Support + hose 90°	1/2-16ACME SX x 5/16"SAE F
C	05059077001	LOCK-VALVE/AS-5	Access valve	1/2-16ACME SX F x 5/16"SAE M

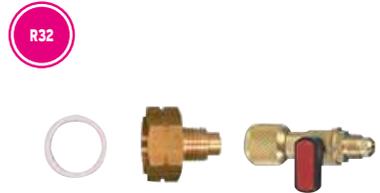


821/121RGAS-5/K

Connection kit for bottle R32 with connection W 21.7-1/14" SX
 Including:

- Adapter for bottle 12,5 L.
- 121RGAS-5-5/16" SAE valve.
- Nylon gasket.

Code	Model
105108103001	821/121RGAS-5/K



WR1K/134

1 L refillable bottles with R134a refrigerant

Code	Model	Refrigerant	Connections	Refrigerant quantity	Min. Qty	Weight
11001090	WR1K/134	R134a	1/4" SAE	900 gr	6	1,90 kg

Rif	Code	Model	Description	Connections
A	05001003001	121 RG4	Valves	1/4"SAE F x 1/4"SAE M
B	05104045		Support + hose 90°	1/4" SAE F x 1/4" SAE F
C	05059049001	LOCK-VALVE 1/4"	Access valve	1/4" SAE F x 1/4" SAE M



WR1K/410

1 L refillable bottles with R410A refrigerant

Code	Model	Refrigerant	Connections	Refrigerant quantity	Min. Qty	Weight
11001088	WR1K/410	R410A	5/16" SAE	800 gr	6	1,80 kg

Ref	Code	Model	Description	Connections
A	05001038001	121-RG5	Valves	5/16" SAE F x 5/16" SAE M
B	05104039		Support + hose 90°	5/16" SAE F x 5/16" SAE F
C	05059050001	LOCK-VALVE/5/16	Access valve	5/16" SAE F x 5/16" SAE M



REFRIGERANT REFILLABLE BOTTLES - EMPTY

Bottle marked (European directive 2010/35/UE)
 Valve and safety valve marked CE (European directive 2010/35/UE)
 Container made of steel (EN13322-1)
 Valve and safety valve are protected by collar (European directive 2010/35/UE)
 Valve connections 17E (EN ISO1116-1) 25E (EN629-1)



WR2.5K/48

2.5 L refillable bottles without refrigerant, with tube

Code	Model	Refrigerants	Min. Qty
11001077	WR2.5K/48	R134a - R407C - R427 - R404A - R507 - R410A	6

Code	Connections	Capacità	Weight
11001077	21,8 W - 1/14" DX	2,5 L	2,2 kg



R32

W2-WR10K/48 - W2-WR9K/48/5

12,5 L refillable bottles without refrigerant with tube, with liquid and vapour valve

Code	Model	Refrigerants	Min. Qty
11001062	W2-WR10K/48	R134a - R407C - R427 - R404A - R507 - R410A	2
11001124	W2-WR9K/48/5	R32	2

Code	Connections	Capacity	Weight
11001062	1/4"SAE	12,5 L	5,9 kg
11001124	5/16"SAE	12,5 L	5,9 kg



W2-WR40K/49

40 L refillable bottles without refrigerant with tube, liquid and vapour valve

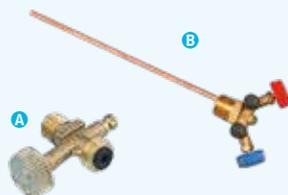
Code	Model	Refrigerants	Min. Qty
11001059	W2-WR40K/49	R134a - R407C - R427 - R404A - R507 - R410A	1

Code	Connections	Capacity	Weight
11001059	1/4"SAE	40 L	21 kg



Spare parts and accessories

Ref	Code	Model	Description
	05002024	WRF2-P	WR2.5K/48 with tube
A	05002025	WRF10	WR10K/44
B	05002016	RF2-1/4"	W2-WR10K/48 with tube
B	05002032	RF2-5/16"	W2-WR9K/48/5 with tube
	05002022	RF2-40K-1/4"	W2WR40K/49 with tube



HOT-BLOWER

Heating blower

- Suitable to dry finned batteries (condensers-evaporators).
- Ideal to warm up the refrigerant during the transfer operations (from bottle to bottle and during recovery).

Code	Model	Dimensions	Weight
14019019	HOT-BLOWER	195 x 170 x 190 mm	1,6 kg

TECHNICAL FEATURES

Power supply	230V-50/60Hz
Power	550 W
Wind rate	2.7 m ³ /min
Max. temperature	45 °C
Thermal cut-out	Yes
Power switch	On/Off locking with button
Power cable length	1.8 mt



RSF400

Heater with thermostat

The heater is supplied with two springs.

Code	Model	Dimensions	Weight
14019007	RSF 400/2T/CLASSE2	150 x 150 x 190 mm	0,35 kg
14023015	SPRING FOR HEADER	-	-

TECHNICAL FEATURES

Power	400 W
Temperature	60 °C max
Heater length	700 mm
Spring length	80 mm



Adapters for bottles



Ref	Code	Model	Description	Connections	
A	05055009	816/2	Adapter	21.8W-1/14" DX F x 1/4 SAE M	
A	05108020001	816/2K	Kit 2 adapters with gasket	21.8W-1/14" DX F x 1/4 SAE M	2
B	05055011	816/6	Adapter	21.8W-1/14" DX F x 3/8 SAE M	
B	05108067001	816/6K	Kit 2 adapters with gasket	21.8W-1/14" DX F x 3/8 SAE M	2
C	05055022	816/5	Adapter	21.8W-1/14" DX F x 5/16 SAE M	
C	05108068001	816/5K	Kit 2 adapters with gasket	21.8W-1/14" DX F x 5/16 SAE M	2
D	05055100	W404/6	Adapter with gasket	1/4 SAE F x 3/8 SAE M	100
D	05108069001	404/6K	Kit 2 adapters with gasket	1/4 SAE F x 3/8 SAE M	2
E	05055099	W404/5	Adapter with gasket	1/4 SAE F x 5/16 SAE M	100
E	05108022001	404/5K	Kit 2 adapters with gasket	1/4 SAE F x 5/16 SAE M	2
F	05055088	821/5	Adapter with gasket	21.8W-1/14" SX F x 5/16 SAE M	
	14020124001	G/W404	Kit 10 gaskets for W404/6 and W404/5	-	10



**AIR CONDITIONING AND REFRIGERATION
SYSTEMS AND INSTRUMENTS**



*Solutions for Natural
and LOWaGWP refrigerants*

HC (R290 - R600a - )



HFC (R32...) HFO (R1234...)



CO₂ (R744)



**DAL 1976 TECNICHE E
ATTREZZATURE AMICHE
DELL'AMBIENTE.**

**SINCE 1976 ENVIRONMENTALLY
FRIENDLY TECHNICS AND
EQUIPMENTS.**



www.wigam.com





CO₂ (R744)

• CO₂ (R744) section 98-102

DIGITAL MANIFOLD



NEW



Refrigerants update



Operations report



Live data

X-MAN-R744

2-way digital manifold gauge set for CO₂

X-MAN-R744 is specifically designed to operate with CO₂ (R744) both in subcritical and transcritical conditions.

Piston-type mechanical system built to the highest quality standards.

5" HD color display with a compact design.

Maximum simplicity and robustness (IP54).

MyWigam APP with real-time data reading, report features, and a complete refrigerant database.

Bluetooth 5.0 to connect to APP and SMART TOOLS.

MAIN FEATURES:

- 2-way piston manifold (3x1/4").
- "ZERO PLUS" recalibration function.
- Built-in ambient temperature probe.
- 2 clamp temperature probes with cable.
- Built-in memory for 3000 recording.
- Maximum working pressure: 160 bar.
- Maximum overpressure: 200 bar.
- Accuracy better than 1% FS.
- Lithium battery with USB-C charger included.
- Compatible with both cable and Bluetooth probes.
- Supplied in a sturdy carrying case.

Code

Model

04080020001

X-MAN-R744



Spare parts and accessories



Ref	Code	Model	Description
	06150018	3W-COSS/4-4-60	3 flexible hoses kit - 1500 mm
A	04111016	PWP-CO2	Complete piston assembly
B	14021027001	PWKG-CO2 L	LOW knob kit
B	14021028001	PWKG-CO2 H	HIGH knob kit



Displayed readings

Low pressure side (LOW)

High pressure side (HIGH)

Temperature T1

Temperature T2

Ambient temperature

Refrigerant saturation temperature (LOW)

Refrigerant saturation temperature (HIGH)

Calculation temperature difference T2 - T1

Subcooling

Over heating

Refrigerant type



Connectable smart tools

Ref	Code	Model	Description
A	09011061	X-TFC	Bluetooth temperature probe
B	09003021	X-VG	Bluetooth digital vacuum gauge
C	09013028	X-SCALE	Bluetooth scale



CO₂ (R744) MANIFOLD KIT

2-way piston manifold kit with Ø80, oil filled gauges for R744, class 1 with regulation screw and stainless steel case, 3 flexible hoses in plastic case.

Code	Model	Connections	Pressures (bar)
04101119	K-PF2ML/D5-4-COS	1/4"SAE	-1 +100 / 0 +160
Code	Dimensions	Weight	
04101119	360 x 320 x 120 mm	2,5 kg	



CO₂ (R744) MANIFOLD

2-way piston manifold with Ø80, oil filled gauges for R744, class 1 with regulation screw and stainless steel case.

Code	Model	Connections	Pressures (bar)
04022060	PF2ML80/D5-4/K1	1/4"SAE	-1 +100 / 0 +160
Code	Dimensions	Weight	
04022060	240 x 220 x 70 mm	0,9 kg	



CO₂ (R744) PRESSURE GAUGES - RADIAL CONNECTION

Ø 80, oil filled, class 1, 1/8NPT radial connection, with regulation screw and stainless steel case.

Code	Model	Pressures (bar)
07113001	ML80/100R1/D5/K1	-1 +100
07113002	ML80/160R1/D5/K1	0 +160
Code	Dimensions	Weight
07113001	100 x 90 x 40 mm	0,3 kg
07113002	100 x 90 x 40 mm	0,3 kg



CO₂ (R744) PRESSURE GAUGES - REAR CONNECTION

Ø 80, oil filled, class 1, 1/4 SAE rear connection, mounting bracket and stainless steel case.

Code	Model	Pressures (bar)
07113014	ML80/100C4S/D5/K1	-1 +100
07113015	ML80/160C4S/D5/K1	0 +160
Code	Dimensions	Weight
07113014	90 x 90 x 70 mm	0,3 kg
07113015	90 x 90 x 70 mm	0,3 kg

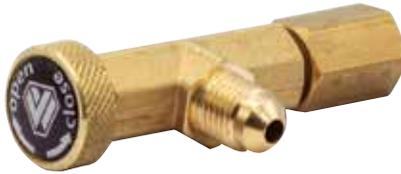


HOSES AND ACCESS VALVES

LOCK-VALVE-R744

CO₂ (R744) access valve

- Max operating pressure 160bar.
- Very efficient tightness that guarantees no gas leaks.
- Extremely reduced volumes that prevent gas leaks during the valve connection and disconnection.
- Very easy to handle.
- Prevent the risk of finger burns when disconnecting the valve.
- Superior construction accuracy.
- PTFE seals to ensure tightness.



Code	Model	Connections
05059064001	LOCK-VALVE1/4-744	1/4" SAE F x 1/4" SAE M

Code	Dimensions	Weight
05059064001	140 x 100 x 20 mm	0,10 Kg

CO₂ (R744) KIT OF 3 FLEXIBLE HOSES, 1500 MM

PTFE hoses with stainless steel braiding and thermoplastic external coating



Code	Model	Connections
06150018	3W-COSS/4-4/1500	1/4" SAE

Code	Dimensions	Weight
06150018	430 x 230 x 20 mm	0,5 kg

TECHNICAL FEATURES

Working max. pressure	200 bar (20 MPa)
Bursting pressure	800 bar (80 MPa)
Operating temperature	-40 °C ÷ +120 °C



Spare parts and accessories



B

C



Ref	Code	Model	Description	
A	14020097	G-LV/T-WIG	Kit 5 pcs LOCK-VALVE gaskets	5
B	08008059	LOCK-VALVE-CARE	Gaskets easy replacement tool for LOCK-VALVE, EW and flexible hoses	-
C	08008065	LOCK-VALVE-CARE-WIG	Counter display with 10 pcs of LOCK-VALVE-CARE	10

NITROGEN REGULATOR (0-200 BAR) FOR CO₂ (R744) SYSTEMS

200 BAR
Speciale
for R744

Code	Model	Countries	Connections
10002039	WN2-200	IT	W 21.7 x 1/14" M
10002041	WN2-200/D	F-B-P-E	Ø21.7 x 1.814F
10002040	WN2-200/E	GB	G 5/8" M
10002042	WN2-200/C	D	W 24.32 x 1/14" F

Code	Dimensions	Weight
10002039	220 x 150 x 150 mm	2,3 kg
10002041	220 x 150 x 150 mm	2,3 kg
10002040	220 x 150 x 150 mm	2,3 kg
10002042	220 x 150 x 150 mm	2,3 kg

TECHNICAL FEATURES

Inlet pressure	300 bar (30 MPa)
Outlet pressure	0-200 bar (0 - 20 MPa)
Connections	1/4" SAE M
Regulation system	Pistone
Inlet gauge	0-400 bar FS
Outlet gauge	0-400 bar



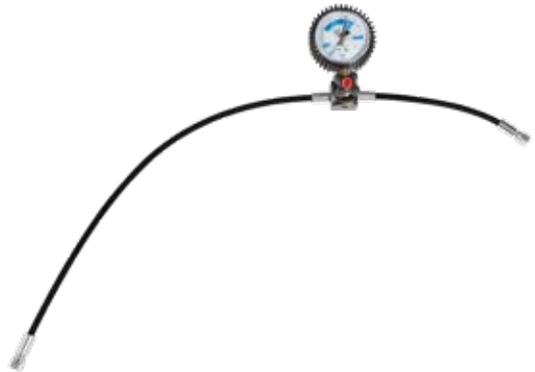
CO₂ (R744) TEST SYSTEM KIT

Complete with gauge 0-200 bar (3080 psi) with reference indicator.

Hose total length 1750 mm (1500 mm + 250 mm).

Code	Model
05015019	W-COSS/4-4/60V8/PF80/N2-K1

Code	Dimensions	Weight
05015019	220 x 240 x 70 mm	1 kg



ADAPTER FOR CO₂ (R744) BOTTLE

Code	Model	Connections
05055009	816/2	21.8W-1/4"D x F x 1/4" SAE M



SCALE AND LEAK DETECTOR



EXACTA-MAXI-CO₂

CO₂ (R744) electronic programmable scale

Very accurate charges, programmable by microprocessor.

Professional scale pan: 300 x 300 mm.

Code	Model	Dimensions	Weight
09013022	EXACTA-MAXI-CO2	460 x 350 x 170 mm	8,5 kg

TECHNICAL FEATURES

Resolution	± 2 gr up to 9,999 gr (capacity 30 kg) ± 10 gr (capacity 10 kg)
Accuracy	± 5 gr up to 30 kg ± 10 gr > 30 kg
Scale pan dimensions	300 x 300 mm
Operating temperature	0 - 50 °C
Power supply	230/1/50-60Hz

VOYAGER



VOYAGER-R744

Infrared leak detector for CO₂ (R744)

VOYAGER-R744 is equipped with an infrared sensor specifically for CO₂ (R744) that offers superior accuracy, insensitivity to false alarms and extended service life.

The robust construction with unique ergonomic design, the innovative large LCD display and the rechargeable lithium-ion batteries make the infrared leak detector not only extremely reliable, but also very intuitive and easy to use.

- 3 sensitivity levels (L/M/H).
- Audible alarm and optimised graphics on large LCD screen.
- High-quality, durable double-barrier probe.
- "Mute" button and connection for headphones.
- Peak storage function.
- Automatic calibration.
- Ergonomic grip.
- Sturdy case with battery charger and 5 spare tips with filters.

Code	Model	Dimensions	Weight
09001119	VOYAGER-R744	330 x 240 x 70 mm	1,2 kg

TECHNICAL FEATURES

Maximum sensitivity	<6 g/year
Calibration	Automatic
Warm-up time	<30 seconds
Response time	<3 seconds
Probe length	40 cm
Power supply	Rechargeable lithium-ion battery
Batteries life	8 consecutive hours
Compliance	CE, SAE J1627, EN14624

HC (R290 - R600A - R1270)

• HC (R600A-R290-R1270) section..... 104-118

IDO ATEX - THE 4.0 DIGITAL AUTOMATIC UNIT



CE ATEX 3G IIB T3 Gc

EXCLUSIVE INNOVATION



WI-FI 4.0
Ready Interconnection



IDO ATEX

4.0 digital automatic portable unit suitable for R290 and R600a

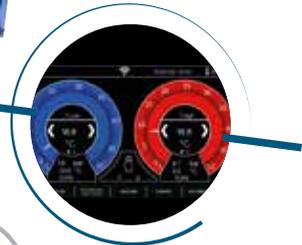
The digital manifold turns into your compact ATEX 4.0 digital automatic unit. **IDO ATEX** is suitable to work with flammable refrigerants such as R290 and R600a and thanks to its electronics and its large LCD Touchscreen, it does not only display information and measurements, but also manages the various integrated or connected equipment in order to carry out autonomous operations, such as discharge and recovery, pressing, vacuum and charge, or cycles of operations, verifying the results with appropriate test phases and reports.

With multiple advantages ranging from time saving to certified quality of the work performed, it is possible to assign tasks or cycles of tasks to the **IDO ATEX** portable unit, with the certainty that they will be carried out, checked and certified through reports. The large touchscreen makes the unit extremely easy to use, while the interconnection on the Service Portal, accessible via PC and Smartphone, allows remote management and exchange of information in real time.

IDO ATEX meets the requirements for Impresa 4.0 benefits.



BOMBOLE NON INCLUSE NEL KIT



Large touchscreen digital control display

AUTOMATIC CYCLES



Management of PRESSURIZATION and TEST



Management of VACUUM and Test



Management of CHARGE



IDO ATEX - THE 4.0 DIGITAL AUTOMATIC UNIT

IDO ATEX

4.0 digital automatic portable unit suitable for R290 and R600a

The IDO range is available in the following versions:

- IDO HFC (see page 54-55): for HFC (A2L included).
- IDO ATEX: suitable also for A3 refrigerants such as HC (R290, R600a).

Unit IDO ATEX features:

- ATEX Zone 2 Certification (CE Atex 3G IIB T3 Gc).
- Suitability to be used with A3 flammable refrigerants such as R600a-R290-R1270.
- Double automatic discharge system assisted by evacuation through integrated ATEX vacuum pump or through flushing with nitrogen.
- Compatibility with refrigerants HC, CFC, HCFC, HFC and HFO (included R32 and R1234yf).
- Large digital control TouchScreen display.
- 2 pressure sensors (Low and High).
- Built-in electronic precision vacuum gauge (mTorr, Pa, mbar,...).
- 3 temperature sensors (Low, High, Ambient), Subcooling and Superheating.
- Compatibility with all K-type temperature probes (2 x TK109 included).
- 35kg removable scale with fittings and adapters for different cylinders.
- Connection for external cylinder of Nitrogen or Azidoro.
- USB port for data transfer and report.
- Integrated wifi kit for 4.0 ready Interconnection.
- Wigam Service Portal, accessible via PC and Smartphone for management, information exchange and report.
- Refrigerant database that can be updated from the portal.
- Database that can be updated with the charging data of the manufacturers.
- Dual stage 46 l/min integrated vacuum pump.



CE ATEX 3G IIB T3 Gc



Code	Model	Vacuum pump	Scale
01090036	IDO-ATEX	RS3D-EX	35 Kg
01090040	IDO-ATEX/180-100	RS9D-EX	100 Kg

Code	Dimensions	Weight
01090036	650 x 400 x 380 mm	22 kg
01090040	650 x 400 x 380 mm	28 kg

TECHNICAL FEATURES

Reigerant	CFC, HCFC, HFO, HC-A3 (R290,R600a...)
Dual stage vacuum pump	46 o 180 l/min - ATEX
Scale	35 o 100 kg
Empty range	1-600 Pa
Charge accuracy	±5g <5kg (detachment mode)
Power supply	230V 50/60Hz
High/Low hoses	1,5m 1/4" SAE with LockValve 1/4"
Bearings for cyclinders	1/4"SAE, 5/16"SAE + bearings 7/16"SAE, 1/2"-16ACME Sx

Automatic functions:



- PRESSURIZATION AND TEST TO CHECK FOR LEAKS
- AUTOMATIC HC DISCHARGE
- VACUUM AND VACUUM TEST WITH RISING CHECK
- REFRIGERANT CHARGE
- INTERNAL VEHICLES DATABASE
- USER-ADJUSTABLE AUTOMATIC CYCLES



Calibration

Code	Description
09053054	Calibration report for iDO

INTERCONNECTION: IDO meets the technical requirements for Impresa 4.0 benefits



AUTOMATIC VACUUM AND CHARGING UNIT



CE ATEX 3G IIB T3 Gc



Bottles not included



KOMPACT-ATEX-TOUCH

Automatic vacuum, test and charging ATEX station for service operations or small productions

The KOMPACT range is available in 2 version:

- KOMPACT ATEX : suitable for HC (R290, R600) and precision charges.
- KOMPACT HFC (pag 89): for HFC (A2L included) with 100Kg scale.
- Touchscreen digital display.
- Designed for use with hydrocarbon (R600a-R290-R1270).
- ATEX Zone 2 certification (CE Atex II 3G IIB T3 Gc).
- High-Accuracy Injection system (injection gun).
- Discharge procedure supported by built-in ATEX vacuum pump.
- Suitable for HC, CFC, HCFC, HFC and HFO (R32 e R1234yf included).
- Database with more than 50 refrigerants.
- Fast access keys.
- Integrated precision vacuum gauge.
- 100 kg scale fixed to the frame and equipped with cylinder locking devices.
- Handle and wheels for easy handling.
- Supports for bottles 7/16", 1/2" 16 ACME Sx, 5/16"SAE
- KOMPACT ATEX-TOUCH meets the requirements for Industry 4.0 incentives.

Code	Model	Vacuum pump
01090041	KOMPACT-ATEX-TOUCH/180-100	RS9D-EX (180l/min)

Code	Dimensions	Weight
01090041	400 x 450 x 830 mm	38,50 kg



Calibration

Code	Description
09053052	Calibration report ref. Accredia for KOMPACT-HFC and KOMPACT-ATEX

AUTOMATIC FUNCTIONS:

- Nitrogen test for leak test.
- Test with azoldio mixture for leak test.
- Nitrogen discharge.
- HC (R290, R600a) optimized discharge.
- Recovery management (recovery unit not included).
- Vacuum.
- Vacuum test and pressure rising test.
- Refrigerant charge.
- 2 automatic cycles:

CYCLE 1

- Nitrogen test
- Vacuum and test vacuum
- Refrigerant charge

CYCLE 2

- HC discharge
- Nitrogen test
- Vacuum and test vacuum
- Refrigerant charge



TECHNICAL FEATURES

Refrigerants	HC, CFC, HCFC, HFC, HFO
Two-stage pump	RS9D-EX(180l/min) ATEX
Scale	100 Kg
Vacuum range	1 ÷ 600Pa
Charging accuracy	± 2g <5 kg / ± 0.1% >5 kg
Power supply	230V 50/60HZ
Connections	1/4" SAE Female + Cylinder supports 7/16", 1/2" 16 ACME Sx, 5/16" SAE"



Application examples



Spare parts and accessories



Ref	Code	Model	Description	Min. Qty
A	05059049001	LOCK-VALVE1/4	Access valve 1/4" SAE F x 1/4" SAE M	-
B	05059053001	LOCK-VALVE/5-4	Access valve 5/16" SAE F x 1/4" SAE M	-
C	05105008001	GF6-1/4"NPT	Quick connector for tube 6 mm	-
D	05105009001	GF8-1/4"NPT	Quick connector for tube 8 mm	-
E	05108045001	WM 16-WIG	Male quick coupling 1/4"NPT	-
F	05108046001	WF 16-WIG	Female quick coupling 1/4"NPT	-
G	05004002	BPV 21	Piercing valve Ø 12,7-15,8	8
G	05004003	BPV 31	Piercing valve Ø 6,3-7,9-9,5	12
H	05004004	W341	Piercing valve Ø 4,8-9,6	-
I	05004005	WPV 31	Piercing valve Ø 6,3-7,9-9,5-10	12
J	08006007	PT-109	Piercing plier	-
K	08006011	PP-343	Piercing plier	-
L	10002017	AZ200-50	Nitrogen regulator 200-50 bar with bracket	-
M	11001060	BN2/1-TPED	Nitrogen cartridge 950 cc	12
	11001112	AZOIDRO	Azoidro cartridge 1 L	12
N	11003011	BAZ 50/1	Nitrogen bottle 5 L	-
	11003020	AZOIDRO/5	Azoidro bottle 5 L	-

VACUUM AND CHARGING KIT

K-EX-46D/D6 KIT

Vacuum and charging kit for R600a-R290-R1270

In compliance with the work safety recommendations when using hydrocarbons and flammable refrigerants, the kit is equipped with an ATEX-certified vacuum pump in the two versions without **A** and with solenoid valve and vacuum meter **B**.

The kit is equipped with the quick assembly kit of the manifold on the vacuum pump patented by Wigam.

All components are provided in comfortable trunk for simple handling.

Standard equipment:

- ATEX (Zone 2) vacuum pump RS3D-EX.
- 4 ways piston manifold, d. 80 oil filled pressure gauges, for R600a-R290-R1270.
- 2 flexible hoses 1500 mm, 1/4"SAE.
- 2 access valve LOCK-VALVE 1/4" - SAE F x 1/4" SAE M.
- 1 discharge vapour hose 5 m.
- Electronic scale 5kg, resolution 1g.
- 2 supports for cartridge (R290 and R600a).
- 1 mineral oil bottle.

Ref	Code	Model
A	01010008001	K-EX46D/D6
B	01010008003	K-EX-EV-46D/D6

Ref	Code	Dimensions	Weight
A	01010008001	550 x 330 x 360 mm	12,8 kg
B	01010008003	550 x 330 x 360 mm	12,8 kg

TECHNICAL FEATURES

Scale capacity	5 kg
Pump volume	46 lt/min
Ultimate vacuum	1x10 ⁻² mbar



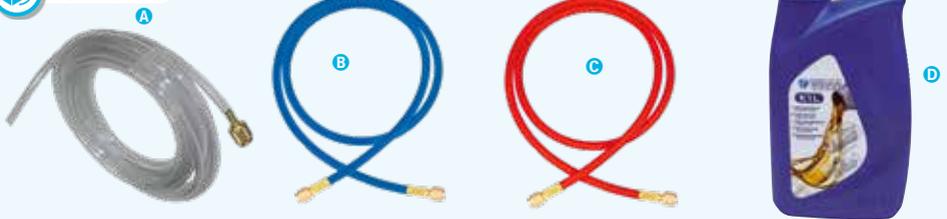
Cartridge not included



Detail of the kit with solenoid valve and vacuum meter



Spare parts



Ref	Code	Model	Description	Min. Qty
A	06053010		Vapour exhaust pipe 5 m	-
B	06071002001	GYSS/4-4/60 B	Hose 1500 mm 1/4 x 1/4 - Blue	-
C	06071002002	GYSS/4-4/60 R	Hose 1500 mm 1/4 x 1/4 - Red	-
D	12002003	KIL	Mineral oil 1 L	12 pz

ATEX RS LINE

ATEX High Vacuum Pumps

Specifically designed to operate, in compliance with the ATEX Directive, with systems using A3 refrigerants such as hydrocarbons (e.g. R290 and R600a).

Available in two versions: with or without solenoid valve-vacuum gauge.

Equipped with a 5 m exhaust hose.

Ref	Code	Model	Dimensions	Weight
A	02002052	RS3D-EX	267 x 150 x 250 mm	6,4 kg
B	02099036	RS3DE/V-EX	267 x 150 x 250 mm	6,4 kg
	02002068	RS9D-EX	350 x 150 x 280 mm	12,5 kg
C	02099038	RS9DE/V-EX	350 x 150 x 280 mm	12,5 kg

TECHNICAL FEATURES

	RS3	RS9
Swept volume	46 l/min	180 l/min
Vuoto finale	1x10 ⁻² mbar	1x10 ⁻² mbar
Power supply	220-240/1/50-60	220-240/1/50-60
Nominal power	120 W	370 W
Protection degree	IP54	IP54
Oil charge	300 cc	450 cc
Connections	1/4" NPT F-1/4" SAE (RS3D-EX) 1/4", 5/16", 3/8" SAE (RS3DEV-EX)	1/4" NPT F-1/4" SAE (RS9D-EX) 1/4", 5/16", 3/8" SAE (RS9DE/V-EX)



Spare parts

Code	Description
06053010	Vapour discharge hose 5m x 5mm for RS3D
06053012	Vapour discharge hose 5m x 8mm for RS9D

4-WAYS PISTON MANIFOLD WITH OIL-FILLED PRESSURE GAUGES Ø80 CLASS 1

With regulation screw.

OTHERS SOLUTIONS P. 68

Code	Model	Refrigerants	Scala
04024039	PW4ML80/D6/4/K1	R600a-R290-R1270	D6

Code	Attachi	Dimensions	Weight
04024039	3x1/4" SAE + 1x3/8" SAE	220 x 220 x 70 mm	0,9 kg



ACCESS VALVES

Code	Model	Connections
05059049001	LOCK-VALVE 1/4"	1/4" SAE F x 1/4" SAE M

Code	Dimensions	Weight
05059049001	140 x 100 x 20 mm	0,1 kg



CE ATEX II 3G c T3



ATEX RECOVERY UNITS



CE Atex II 3G



DIGITAL DISPLAY

EASYREC-3EX

High performance recovery unit for flammable refrigerants (included R600a and R290)

Unit EASYREC-3EX, specially DESIGNED according to the ATEX directive (CE Atex II 3G), is suitable to RECOVER FLAMMABLE REFRIGERANTS belonging to the A3 family as well, such as R600a and R290.

- High performances thanks to the powerful 1 HP compressor and to the higher capacity condenser.
- Very compact and light design.
- Ceramic cylinders with carbon fibre seal for superior reliability.
- Large, intuitive heavy-duty digital display that supports the user in the recovery phase with multiple information.
- Multiple selectable recovery modes.
- Automatic stop of the unit at the end of recovery with visual and acoustic indication.
- Shut-off valves that prevent refrigerant spills.
- Self-evacuation (PURGE) device, which allows to change type of refrigerant easily.
- Safety device for maximum pressure.
- Sight-glass and filters included.

Code	Model	Dimensions	Weight
13001030	EASYREC-3EX	380 x 360 x 250 mm	11,90 kg

TECHNICAL FEATURES

Refrigerant	HC (R600a-R290) CFC-HCFC-HFC-HFO
Power supply	220 - 240V AC 50 - 60 Hz
Maximal current draw	6A
Compressor	Double piston, dry
Automatic safety shut-off	38.5 bar/3850 kPa (558 psi)
Operating temperature	0 - 40 °C

Recovery rate	R600a- R1234yf-R134a	R290- R502-R407C	R404A-R410A R507-R32
Vapour	29 kg/h	32 kg/h	33 kg/h
Liquid (recovery)	214 kg/h	340 kg/h	380 kg/h
Push-pull	372 kg/h	474 kg/h	502 kg/h



Spare parts and accessories



Ref	Code	Model	Description	Dimensions	Weight
A	14015008	MG-111	Filter drier (1/4" SAE M-M)	100 x 40 x 40 mm	0,28 kg
A	14015041	MG-111-A	Filter drier (1/4" SAE M-M) with alumina	100 x 40 x 40 mm	0,28 kg
B	14015013	XH412	"High capacity" filter drier (1/4" SAE M-M)	250 x 80 x 80 mm	1,10 kg
B	14015042	XH412-A	"High capacity" filter drier (1/4" SAE M-M) with alumina	250 x 80 x 80 mm	1,10 kg
C	14020014001	G19020-WIG	Kit 10 gaskets for 1/4" SAE flexible hoses	160 x 90 x 10 mm	0,02 kg
D	06071013003	GYSS/4-4/6/Y	Connection hose for filter 1/4" SAE 150 mm	250 x 50 x 50 mm	0,16 kg
E	13008026	RECO26	Sight glass	90 x 40 x 50 mm	0,17 kg

FAN-ATEX

ATEX Fan

Essential service accessory to be used with flammable refrigerants.

- Heavy Duty unit ATEX ZONE 2 (CE ATEX II 3G Ex ec IIC Go).
- 5 mt power cable.
- Optimum capacity in compact dimensions.
- Capacity: 25 m³/min. (1500 m³/h).
- Diameter: 254 mm.
- Power: AC 230V-50/60 Hz.



CE ATEX II 3G Ex ec IIC Gc



Code	Model	Dimensions	Weight
14006059	FAN-ATEX	350 x 200 x 350 mm	5 kg

PRATIKA-EX 100-05

ATEX Electronic Scale

- ATEX Zone 2 electronic scale.
- Designed for direct installation of the refrigerant cylinder support.



CE ATEX II 3G



Code	Model	Dimensions	Weight
09013029	PRATIKA-EX 100-05	380 x 300 x 80 mm	3,10 kg

TECHNICAL FEATURES

Maximum capacity	100 kg
Resolution	5 g
Accuracy	± 0,5 % of the value
Platform dimensions	230 x 230 mm
Units of measurement	kg, lbs/oz
Operating temperature	0° - 45° C
Auto power-off	1.5 min
Power supply	2 x 9V alkaline batteries



Cartridge and support not included

R-ECOPUMP

Manual system for refrigerant and oil transfer

Safe system, not have ignition sources, especially designed for recovery/transfer/charge of flammable refrigerants (A3, A2L).

The system enables to recover the refrigerant minimizing the residual quantities.

Can be used with followings refrigerants and lubricants:

R290 - R600a - R134a - R1234ze - R1234yf - R12 - R22.

Equipped with:

- 2 flexible hoses with valve 1/4" SAE 1500 mm, blue and red.

Ref	Code	Model	Description
A	13001026	R-ECOPUMP	Manual system
B	11001124	W2-WR9K/48/5	12.5 L refillable bottle without refrigerant with liquid and vapour valve



TECHNICAL FEATURES

Max operating pressure	12 bar	Vapour flow rate (for R290-R600)	72 g/min*
Liquid flow rate (for R134-R1234)	800 g/min*	Reachable vacuum	- 0,8 bar
Vapour flow rate (for R134-R1234)	180 g/min*	Max temperature	40 °C
Liquid flow rate (for R290-R600)	320 g/min*		

*The calculation of the flow rate has been made considering an average of 40/45 pumpings per minute.

DIGITAL MANIFOLD



CE Atex II 3G



Refrigerant update



Operations report



Live data

X-MAN-EX-100

4-way ATEX Digital Manifold Gauge Set

The 4-way digital manifold X-MAN-EX-100 (ATEX Zone 2) is specifically designed to support refrigeration technicians during service operations on systems using A3 refrigerants such as R290 and R600a.

X-MAN-EX-100 (ATEX Zone 2), meeting the demands of an evolving market where low environmental impact refrigerants are becoming increasingly widespread in refrigeration, offers maximum flexibility thanks to its compatibility with all refrigerants.

Piston-type mechanical system built to the highest quality standards. 5" HD color display with a compact design.

Maximum simplicity and robustness (IP54).

MyWigam APP with real-time data reading, reporting features, and a complete refrigerant database.

Bluetooth 5.0 to connect to MyWigam APP connectivity.

MAIN FEATURES:

- 4-way piston manifold (3x1/4" + 1x3/8").
- Suitable also for CFC, HCFC, HFC and HFO with continuous updates.
- "ZERO PLUS" recalibration function.
- Built-in ambient temperature probe.
- 2 clamp temperature probes with cable.
- Built-in memory for 3000 records.
- Maximum working pressure: 56 bar.
- MyWigam APP:
 - Refrigerants update.
 - operations report.
 - Live data.
- Lithium battery with USB-C charger included.
- Supplied in a sturdy carrying case.

Code	Model
04080022001	X-MAN-EX-100



Spare parts and accessories



Ref	Code	Model	Description
A	09012040	T-CLAMP	2 m cable clamp probe
B	04111011	PWP	Complete piston assembly
G	14021013001	PWKG-L	LOW knob kit
C	14021014001	PWKG-H	HIGH knob kit
C	14021015001	PWKG-R	REF knob kit
C	14021016001	PWKG-V	VAC knob kit

i Displayed readings

- Low pressure side (LOW)
- High pressure side (HIGH)
- Temperature T1
- Temperature T2

- Ambient temperature
- Refrigerant saturation temperature (LOW)
- Refrigerant saturation temperature (HIGH)
- Calculation temperature difference T2 - T1

- Subcooling
- Superheat
- Refrigerant type

DEVICE FOR CHARGE OPTIMIZATION AND THE CONTROL OF WORKING PRESSURES

Thanks to its small inner volumes and to its easy regulation, the device allows to optimize the HVAC systems charging process, maximizing the accuracy and reducing at the lowest the quantity of dissipated refrigerant.



Code	Model	Dimensions	Weight
04001082	WIVRML80/D6/4/K1	220 x 240 x 70 mm	0,7 kg

CARTRIDGES, VALVES AND SUPPORTS FOR R600A

Disposable cartridges with R600a refrigerant

Ref	Code	Model	Refrigerant
A	11001026	BF420/R600	R600a

Ref	Code	Refrig. Qty	Connections	Mn. Qty	Weight
A	11001026	420 gr	7/16"	12	0,60 kg

Valves and supports for R600a disposable cartridges

Ref	Code	Model	Description	Connections
B	05002003001	BVR-4	Valve	7/16" F x 1/4" SAE M
C	05104038		Support + 90° hose	7/16" F x 1/4" SAE F



CARTRIDGES, VALVES AND SUPPORTS FOR R290

Disposable cartridges with R290 refrigerant

Ref	Code	Model	Refrigerant
A	11001085	BF370/R290	R290

Ref	Code	Refrig. Qty	Connections	Mn. Qty	Weight
A	11001085	R290	1/2" 16 ACME SX	12	1,15 kg

Valves and supports for R290 disposable cartridges

Ref	Code	Model	Description	Connections
B	05002035001	121 RGAS-4-WIG	Valve	1/2" - 16 ACME SX F x 1/4" SAE M
C	05104052		Support + 90° hose	1/2" - 16 ACME SX F x 1/4" SAE F
D	05059076	LOCK-VALVE/AS-4	Access valve	1/2"-16 ACME SX F x 1/4" SAE M



PIERCING PLIERS AND VALVES

PIERCING PLIERS

Sturdy piercing pliers that allows to have an immediate piercing of the refrigeration system charging hose.

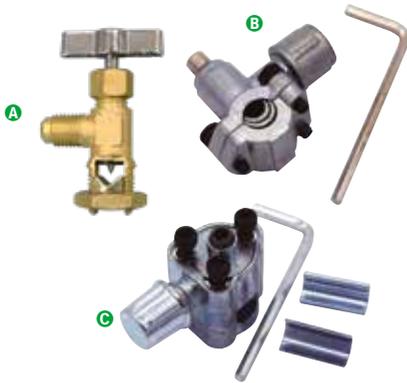
Indispensable for performing vacuum and charging operations especially on HVAC systems with flammable refrigerants (HC - hydrocarbons).



Ref	Code	Model	Connections	Ø tubes mm
A	08006007	PT-109	1/4"SAE	1/4"-1/2" (6-12 mm)
B	08006011	PP-343	1/4"SAE	1/4" (6 mm)

Ref	Code	Dimensions	Weight
A	08006007	300 x 130 x 25 mm	0,26 kg
B	08006011	240 x 75 x 25 mm	0,43 Kg

TUBE PIERCING VALVES



Ref	Code	Model	Connections	Ø tubes mm	Mn. Qty
A	05004004	W341	1/4"SAE	4,8 - 9,6	-
B	05004005	WPV31	1/4"SAE	6,3 - 7,9 - 9,5 - 10	12
C	05004002	BPV21	1/4"SAE	12,7 - 15,8	8
D	05004003	BPV31	1/4"SAE	6,3 - 7,9 - 9,5	12

Ref	Code	Dimensions	Weight
A	05004004	70 x 30 x 30 mm	0,1 kg
B	05004005	150 x 100 x 65 mm	0,7 kg
C	05004002	135 x 85 x 80 mm	1,0 kg
C	05004003	150 x 100 x 65 mm	1,2 kg

PINCH-OFF PLIERS

Sturdy pinch-off pliers. Allows to deform and close copper pipes, thanks to its particular jaws.



Ref	Code	Model	Ø tubes mm
A	08006001	RR	1/8" - 3/8"
B	08006012	POP-201	1/8" - 3/8"

Ref	Code	Dimensions	Weight
A	08006001	250 x 80 x 20 mm	0,36 kg
B	08006012	190 x 60 x 20 mm	0,35 kg

RATCHET TUBE CUTTER



Code	Model	Sizes
08002020	WR-TC12	da 1/8" a 1/2" (da 3 mm a 12 mm)

Code	Dimensions	Weight
08002020	190 x 100 x 30 mm	0,2 kg

ELD-C EX

Combustible gas leak detector

Ideal for locating leaks in industrial, commercial and residential refrigeration and heating systems, ELD-C EX detects fuel gas concentrations of up to 5 ppm.

- ATEX Zone 2 Certificate (ATEX II 3G Ex nA IIA T3 Gc)
- Self-calibrating and with low maintenance.
- Sensitivity less than 50 ppm. (Propane, Iso-butane, Methane).
- Light and ergonomic.
- Visual and sound loss detection signal.

Gases detected: propane, methane, iso-butane, natural gas, acetone, hesean, acetylene, benzene, ethanol, gasoline, hydrogen, naphtha, GPL, etc.



ATEX II 3G Ex nA IIA T3 Gc

Code	Model	Dimensions	Weight
09001117	ELD-C EX	310 x 210 x 80 mm	0,90 kg

TECHNICAL FEATURES

Technology	Semi-conductor	Response time	5 seconds
Maximum sensitivity	<50 ppm	Probe Length	30 cm
Calibration	Automatic	Power supply	2 x 1,5V AA alk. bat.
Warm-up time	from 25 to 90 s	Batteries life	11 hours



Spare parts

Code	Model	Description
09050074	ELS-C	Sensing tip for HC
09050109	ELS-A	Sensing tip for AZOIDRO

EX-DETECTOR

Personal detector for flammable (R290)

- Personal detector specifically designed for HC-R290, ideal for monitoring and controlling work areas during service operations.
- Alarms are triggered according to different %LEL threshold levels.
- Audible, visual and vibration alarms.
- Suitable for ATEX Zone 2.
- IP68 protection degree.
- Compact dimensions and easy attachment system fo belt/clothing.
- Supplied with connector for calibration/test cylinders.

Code	Model	Description	Dimensions	Weight
09001118	EX-DETECTOR	Personal R290 detector	260 x 70 x 70 mm	0,6 kg
09050125	BUMP/RID	Regulator for calibration cylinder	-	-
09050126	BUMP/BOT	Calibration test cylinder	-	-

TECHNICAL FEATURES

Measuring range	0-100%LEL	Alarm decibel	≥ 95dB
Resolution	1%LEL	Measuring unit	%LEL
Precision	± 10%	Detected gas	HC-R290



ATEX II 3G Ex da ia IIC T4 Gc



SURE CHECK

"SURE CHECK" leak detector

- Gases detected: propane, methane, iso-butane, natural gas, acetone, acetylene.
- Formula for all temperatures: from -48°C to 93°C (from -55°F to 200°F).
- Ultra sensitive; long-lasting bubbles.
- Fluorescent bubbles for better visibility.
- Not corrosive, non-toxic.
- Can be used with refrigerants, natural gas, propane and oxygen.

Code	Model	Capacity	Dimensions	Weight
09001024	32850	473 ml	260 x 70 x 70 mm	0,6 kg



SELF-LOCKING COUPLINGS



IPER-LINK

Self-locking couplings

Wigam's IPER-LINK is the family of SELF-BLOCKING BRASS HERMETIC COUPLINGS for an easy and quick connection of refrigeration hoses that make the operation EASY, QUICK and LOW COST.

Thanks to the IPER-LINK **A** couplings, refrigerant hoses can be **hermetically connected** WITHOUT BRAZING and WITHOUT SPECIAL TOOLS or SEALANTS (Fig. 1).

Thanks to the IPER-LINK **B** fittings especially threaded on one side, it is also possible to make the connection to the **condensing and evaporating units** WITHOUT FLANGING (Fig. 2)

Suitable for refrigerants with a working pressure up to 52bar, they have passed the leakage test, the vacuum test and the high pressure test according to the limit values of the EN14903.

The accurate Italian manufacture of IPER-LINK couplings, with especially engineered mechanical seals and gaskets, is synonymous with superior quality (MADE IN ITALY).

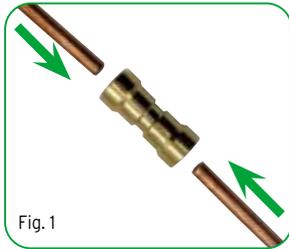


Fig. 1



Fig. 2



QUICK



EASY



ECONOMIC



INCLUDED R32



INCLUDED R290

BENEFITS

- ✓ HERMETIC CONNECTIONS WITHOUT BRAZING OR SPECIAL TOOLS
- ✓ CONNECTIONS TO THE UNITS WITHOUT FLANGING
- ✓ FOR ALL REFRIGERANTS UP TO 52 BAR
- ✓ SIMPLE, QUICK AND LOW-COST
- ✓ SMALL DIMENSIONS
- ✓ QUALITY MADE IN ITALY

TECHNICAL FEATURES

Refrigerants	CFC-HCFC-HFC-HFO-HC
Max. working pressure	5,2 MPa (52 bar)
Min. pressure	0.01mbar (7.5mTorr)
Operating temperature	-45 ÷ +130°C
Tightness system	Double-tight



Illustrative indications of the coupling installation



Cutting the hose



Inner and outer cleaning of the hose with an inner/outer reamer



Insertion of the hose on the IPER-LINK

For complete instructions, see the user's manual

IPER-LINK - LINEAR HOSE TO HOSE COUPLINGS

Code	Model	Description	ØA	ØB	L (mm)	Kit	Kit
05068001	IPER-LINK/S/4-4	Kit 2 linear couplings 1/4"x1/4"	1/4"	1/4"	39		20 x
05068002	IPER-LINK/S/6-6	Kit 2 linear couplings 3/8"x3/8"	3/8"	3/8"	48		10 x
05068003	IPER-LINK/S/8-8	Kit 2 linear couplings 1/2"x1/2"	1/2"	1/2"	50		10 x
05068012	IPER-LINK/S/10-10	Kit 2 linear couplings 5/8"x5/8"	5/8"	5/8"	50,4		10 x



IPER-LINK - LINEAR HOSE TO HOSE REDUCED COUPLINGS

Code	Model	Description	ØA	ØB	L (mm)	Kit	Kit
05068004	IPER-LINK/S/4-6	Kit 2 reduced linear couplings 1/4"x3/8"	1/4"	3/8"	44		20 x
05068005	IPER-LINK/S/6-8	Kit 2 reduced linear couplings 3/8"x1/2"	3/8"	1/2"	50		10 x



IPER-LINK - HOSE TO HOSE 90° COUPLINGS

Code	Model	Description	ØA	ØB	L (mm)	Kit	Kit
05068006	IPER-LINK/L/4-4	Kit 2 couplings 90° 1/4"x1/4"	1/4"	1/4"	22x22		10 x
05068007	IPER-LINK/L/6-6	Kit 2 couplings 90° 3/8"x3/8"	3/8"	3/8"	29x29		10 x
05068008	IPER-LINK/L/8-8	Kit 2 couplings 90° 1/2"x1/2"	1/2"	1/2"	32x32		10 x



IPER-LINK - HOSE TO UNIT FITTINGS

Code	Model	Description	ØA	ØB	L (mm)	Kit	Kit
05068009	IPER-LINK/S/4-4F	Kit 2 couplings 1/4"x1/4"SAE	1/4"	1/4"SAE	34		10 x
05068010	IPER-LINK/S/6-6F	Kit 2 couplings 3/8"x3/8"SAE	3/8"	3/8"SAE	41		10 x
05068011	IPER-LINK/S/8-8F	Kit 2 couplings 1/2"x1/2"SAE	1/2"	1/2"SAE	44		10 x
05068013	IPER-LINK/S/10-10F	Kit 2 linear couplings 5/8"x5/8"	5/8"	5/8 SAE	49,5		10 x



Spare parts and accessories

Code	Model	Description	Mn. Qty
14020035	B2-4	Conical copper gasket 1/4"	100 pc.
14020036	B2-6	Conical copper gasket 3/8"	100 pc.
14020044	B2-8	Conical copper gasket 1/2"	100 pc.
14020045	B2-10	Conical copper gasket 5/8"	100 pc.



IPER-LINK - LINEAR EXTENSION KIT

Code	Model	Description	Kit	Kit
05068022	K-IPER-LINK-JOINT/4-6	Linear extension kit 1 pc. 1/4"x1/4" + 1 pz. 3/8"x3/8"		10 x
05068023	K-IPER-LINK-JOINT/4-8	Linear extension kit 1 pc. 1/4"x1/4" + 1 pz. 1/2"x1/2"		10 x



IPER-LINK SPLIT INSTALLATION KIT

Code	Model	Description	Kit	Kit
05068020	K-IPER-LINK-SPLIT/4-6	Split installation kit 2 pcs. 1/4"x1/4"SAE + 2 pcs. 3/8"x3/8"SAE		5 x
05068021	K-IPER-LINK-SPLIT/4-8	Split installation kit 2 pcs. 1/4"x1/4"SAE + 2 pcs. 1/2"x1/2"SAE		5 x



Conical brass gaskets included.

SELF-FLARING CAPS



EASY-CAP

Self-flaring caps for hermetic closure of the end of the service pipes

EASY CAP is a simple and fast system that allows hermetic sealing of service pipes, without carrying out welding operations.

EASY-CAP is easily applicable only with the use of two simple hexagonal keys.

The result obtained is of the same hermetic level as a weld, but without the disadvantages it entails.

Code	Model	Description	Mn. Qty
05108109	EASY-CAP-1/4-6	Self-flaring caps	500
05108109001	EASY-CAP-1/4-6-10K	Kit 10 pz self-flaring caps	

Code	Ø tube	Weight
05108109	1/4" 6mm	40 gr
05108109001	1/4" 6mm	400 gr

Illustrative indications



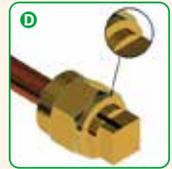
A Insert the tube into the EASY CAP system.



B Tighten the nut until the signal.



C Loosen to check the quality of the work obtained..



D Tighten again with 1/4 of a turn at the end of the work.

INTERNAL CORE FOR HC (R290, R600A)



Code	Model	Description	Min. Qty
14023023	M1/4"-R290/V	Internal core for HC R290 R600 1/4"	500
05108110001	M1/4"-R290/VK	Kit 10 pcs internal core for HC R290 R600 1/4"	

CAP WITH GASKET FOR HC (R290, R600A)



Code	Model	Description	Min. Qty
05063055	CP1/4"-R290	Cap for HC service ports R290-R600a equipped with internal core	500
0510811001	CP1/4"-R290K	Kit of 10 pcs of cap for R290-R600a	



NH₃-AMMONIA (R717)

• NH₃ (R717) section..... 120-122



DIGITAL MANIFOLD



X-MAN-R717

4-way Digital Manifold for NH₃-R717 (Ammonia)

X-MAN-R717 is specifically manufactured with steel fittings suitable for operation with R717 (ammonia).

Piston-type mechanical system built to the highest quality standards.

5" HD color display with a compact design.

Maximum simplicity and robustness (IP54).

MyWigam APP with real-time data reading, report features, and a complete refrigerant database.

Bluetooth 5.0 to connect to APP and SMART TOOLS connectivity.

MAIN FEATURES:

- 4-way piston manifold (4x1/4") with stainless steel connections.
- Suitable for NH, as well as CFC, HCFC, HFC and HFO refrigerants, with continuous updates.
- "ZERO PLUS" recalibration function.
- Built-in ambient temperature probe.
- 2 clamp temperature probes with cable.
- Built-in memory for 3000 records.
- Maximum working pressure: 56 bar.
- Better than 1% FS of accuracy.
- Lithium battery with USB-C charger included.
- Compatible with both cable and Bluetooth probes.
- Supplied in a sturdy carrying case.



Refrigerants update



Operations report



Live data

Code	Model
04080021001	X-MAN-R717



Spare parts and accessories

A



B

Ref	Code	Model	Description
A	0411015	PWP-A	Complete piston assembly in steel
B	14021023001	PWKG-A L	LOW knob kit in steel
B	14021024001	PWKG-A H	HIGH knob kit in steel
B	14021025001	PWKG-A R	REF knob kit in steel
B	14021026001	PWKG-A V	VAC knob kit in steel

i Displayed readings

Low pressure side (LOW)	Ambient temperature	Subcooling
High pressure side (HIGH)	Refrigerant saturation temperature (LOW)	Superheat
Temperature T1	Refrigerant saturation temperature (HIGH)	Refrigerant type
Temperature T2	Calculation temperature difference T2 - T1	



Connectable smart tools

Ref	Code	Model	Description
A	09011061	X-TFC	Bluetooth temperature probe
B	09013028	X-SCALE	Bluetooth scale



A



B

RS9DE-NH3

High vacuum pump for NH₃

Especially designed to work with NH₃ Ammonia (R717).

- Solenoid valve on the suction.
- Dual fitting on the suction side.
- Equipped with 5 m hose for vapour discharge.



Code	Model	Dimensions	Weight
02099039	RS9DE-NH3	350 x 150 x 280 mm	12,5 kg

TECHNICAL FEATURES

Swept volume	180 lt/min
Ultimate vacuum	1x10 ⁻² mbar
Power supply	230
Nominal power	370 W
Protection degree	IP54
Oil charge	450 cc
Connections	2x1/4"SAE



Spare parts

Code	Descrizione
06053012	Vapour discharge hose 5m x 8mm



Spare parts and accessories



VACUUM PUMP OIL

Code	Model	Viscosity	Capacity	Type	Mn. Qty	Dimensions	Weight
12002003	K1L	46	1L	Mineral	12	110 x 160 x 250 mm	1 kg
12002017	W68	68	1L	Ester (POE)	12	110 x 160 x 250 mm	1 kg

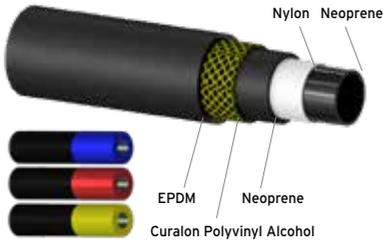
To maintain the vacuum pump's performance unchanged, it is recommended to replace the oil after each use.

SERVICE HOSES

“HD” SERVICE HOSE

Reinforced HEAVY DUTY hose with low permeability barrier and wear-resistant coating SAE J2196 - SAE J2888 - SAE J2064

In addition to the model mentioned below, hoses of any length can be delivered.



TECHNICAL FEATURES

In accordance with	5,2 MPa
Working pressure	27,6 MPa
Internal diameter	1/4"
Working temperature	-30 ÷ +125°C



Kit of 3 HD service hoses for NH3 (R717) with straight x straight connections

Code	Model	Length	Connections	Dimensions	Weight
06010023	3HDSS/4-4/60/R717	1500 mm	1/4"SAE	250 x 250 x 50 mm	0,8 kg

PTFE SERVICE HOSES

High pressure PTFE hoses with stainless braid

The stainless steel metallic braid guarantees high performances at high pressures. The stainless steel allow to work in acid environments.

These features make these hoses suitable for R717 (NH₃-Ammonia) applications.

In addition to the model mentioned below, hoses of any length can be delivered.



TECHNICAL FEATURES

Outside diameter	7,5 mm - 8,6 mm
Inner diameter	5 mm - 3,16"
Core material	PTFE compatible with refrigerants
Outer covering	AISI 304 steel braid
Max operating pressure	200 bar
Working temperature	-60 ÷ +260°C
Min. radius of curvature	64 mm
Weight	94 g/m



Kit of 3 PTFE service hoses for NH₃ (R717) with straight x straight connections, in a plastic bag

Code	Model	Length	Connections	Dimensions	Weight
06102005	3NHSS/4-4/60	1500 mm	1/4"SAE	430 x 230 x 20 mm	0,5 kg



INSTRUMENTS

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ELECTRONIC SCALES COMPARATIVE TABLE

	W8025	PRATIKA 100-05	X-SCALE	EXACTA MAXI	PRATIKA-PLUS 100-05
					
Max capacity	5 kg	100 kg	100 kg	100 kg	100 kg
Resolution	1 g	5 g	5 g	± 2 g up to 9.999 g (capacity 30 kg) ± 10 g (capacity 100 kg)	5 g
Accuracy	1 g	0,5% value	± 0,05% value	± 5 g up to 30 kg ± 10 g/t > from 30 kg	0,5% of the value
Programmable charge and recovery	-	-	-	✓	✓
Scale pan dimensions	Ø 140 mm	230 x 230 mm	270 x 270 mm	300 x 300 mm	230 x 230 mm
Measuring units	kg, lbs	kg, lbs/oz	kg, lbs	kg	kg, lbs/oz
Operating temperature	0 - 45°C	0 - 45°C	-10 - 40 °C	0 - 50 °C	0 - 45°C
Auto power off	3 min	1,5 min	-	-	1,5 min
Power supply	2 x 1,5V AA alkaline batteries	2 x 9V alkaline batteries	5 x 1,5V AA alkaline batteries	230/1/50-60 Hz	4 x 1,5V AA alkaline batteries
Dimensions	235 x 130 x 40 mm	380 x 300 x 80 mm	290 x 290 x 180 mm	460 x 350 x 170 mm	380 x 300 x 80 mm
Weight	0,5 kg	3,10 kg	3,5 kg	8,5 kg	3,70 kg



REFRIGERANT
CYLINDER
SUPPORTS
P. 93 AND 113

Support and capillary not included.

W8025

Electronic scale up to 5 kg

Designed for the direct installation of the refrigerant cylinder support.

Code	Model	Dimensions	Weight
09013018	W8025	235 x 130 x 40 mm	0,5 kg

TECHNICAL FEATURES

Max capacity	5 kg
Resolution	1 g
Accuracy	1 g
Scale pan dimensions	Ø 140 mm
Measuring units	kg, lbs
Power supply	2x1,5 AA alkaline batteries

PRATIKA 100-05

Electronic scale up to 100 kg

- High-contrast display.
- Auto-power off selectable: 5' - 15' (default) - 30' - off.
- Designed for the direct installation of the refrigerant cylinder support.



REFRIGERANT CYLINDER SUPPORTS P. 93 AND 113

Code	Model	Dimensions	Weight
09013019	PRATIKA 100-05	380 x 300 x 80 mm	3,10 kg

TECHNICAL FEATURES

Max capacity	100 kg
Resolution	5 g
Accuracy	± 0,5 % value
Scale pan dimensions	230 x 230 mm
Measuring units	kg, lbs/oz
Operating temperature	0° - 45° C
Selectable auto power off	5' - 15' (default) - 30' - off
Power supply	2 x 9V alkaline batteries



Calibration

Code	Model	Description
09013019001	PRATIKA 100-05/RT	Scale with calibration report
09053013		Calibration report ref. Accredia for scale

X-SCALE

Wireless scale up to 100 kg

- Bluetooth 5.0 connection for MyWIGAM App and X-MAN digital manifolds.
- When used with MyWIGAM App (iOS and Android), it operates as an independent wireless scale.
- Connectable to all digital manifolds of the X-MAN range.
- Data from multiple devices are combined within MyWIGAM App, providing a complete report overview.
- Designed for the direct installation of the refrigerant cylinder support.



Code	Model	Description
09013028	X-SCALE	Bluetooth scale

TECHNICAL FEATURES

Maximum capacity	100 kg	Bluetooth range	100 m
Resolution	5g	Scale pan dimensions	270 x 270 mm
Accuracy	+/- 0,05% value	Power supply	5 x 1,5AA alkaline batteries



REFRIGERANT CYLINDER SUPPORTS P. 93 AND 113



Calibration

Code	Model	Description
09013028001	X-SCALE/RT	Scale with calibration report
09053013		Calibration report ref. Accredia for scale



Support and capillary not included.

ELECTRONIC SCALES

SCALE PAN
300 X 300 MM



EXACTA-MAXI

Programmable electronic scale up to 100 kg

- Display reading.
- Very accurate charges and recoveries, programmable by microprocessor.
- Pre-set data storage in case of power supply interruption.
- Charge and discharge repeatability function.
- Suitable to work with all refrigerants (R410A AND R32 INCLUDED).
- Strong manufacture for small and medium productions.
- Compact and handy.



Code	Model	Dimensions	Weight
09013021	EXACTA-MAXI	460 x 350 x 170 mm	8,5 kg
09013022	EXACTA-MAXI-CO2	460 x 350 x 170 mm	8,5 kg

TECHNICAL FEATURES

Max capacity	100 kg
Resolution	± 2 g up to 9.999 gr (capacity 30 kg)
Accuracy	± 5 g up to 30 kg ± 10 g/f > di 30 kg
Scale pan dimensions	300 x 300 mm
Measuring unit	kg
Operating temperature	0 - 50 °C
Power supply	230/1/50-60Hz



PRATIKA-PLUS 100-05

Programmable electronic scale up to 100 kg

Code	Model	Dimensions	Weight
09013020	PRATIKA-PLUS 100-05	380 x 300 x 80 mm	3,70 kg

TECHNICAL FEATURES

Max capacity	100 kg
Resolution	5 g
Accuracy	÷ 0,5 % value
Scale pan dimensions	230 x 230 mm
Measuring units	kg, lbs/oz
Operating temperature	0° - 45° C
Auto power off	1.5 min
Power supply	4x1,5 AA



Calibration

Code	Model	Description
09013020001	PRATIKA-PLUS 100-05/RT	Scale with calibration report
09053013		Calibration report ref. Accredia for scale

LEAK DETECTORS COMPARATIVE TABLE

	VOYAGER-IR	VOYAGER	ELD-H	VOYAGER-R744	ELD-C EX
					
HFC, CFC, HCFC (included R32)	✓	✓	✓	-	-
HFO (es. R1234yf, R1234ze)	✓	✓	✓	-	-
HC (CH ₄ , R290, R600)	-	✓	-	-	✓
R744 (CO ₂)	-	-	-	✓	-
Azoidro (N ₂ -H ₂)	-	✓	-	-	-
Tecnology	Infrared	Semi-conductor	Negative corona	Infrared	Semi-conductor
Maximum sensitivity	4 g/year	3 g/year	3 g/year	6 g/year	< 50 ppm
Automatic calibration	✓	✓	✓	✓	✓
Audible	✓	✓	✓	✓	✓
Visual display	LCD display	LCD display	Tricolor LED	LCD display	Tricolor LED
Sensor life	10 years	1 year	30 hours	10 years	1 year
Warm-up time	<30 sec	< 60 sec	<2 sec	<30 sec	From 25 to 90 sec
Response time	< 3 sec	< 3 sec	instantant	<3 sec	5 sec
Compliance CE EN14624	✓	✓	✓	✓	-
Probe Length	40 cm	40 cm	30 cm	40 cm	30 cm
Power supply	Rechargeable lithium	Rechargeable lithium	2x 1,5V AA alkaline batteries	Rechargeable lithium	2x 1,5V AA alkaline batteries
Batteries life	6 hours	6 hours	40 hours	6 hours	11 hours

INFRARED LEAK DETECTOR



VOYAGER-IR

Infrared leak detector for HVAC and A/C

VOYAGER-IR offers you **maximum reliability and accuracy in leak detection.**

leak detection. With its infrared sensor, it offers **the best insensitivity to false alarms** and also incomparable **longevity.**

VOYAGER-IR detects **all halogenated refrigerants HFC, CFC, HCFC, HFOs** and their mixtures including A2L refrigerants such as R32 or R1234yf.

The sturdy construction with unique ergonomic design, the innovative large LCD display and the rechargeable lithium-ion batteries make the infrared leak detector not only extremely reliable, but also very intuitive and easy to use.

- Sealed sensor: the sensor doesn't "touch" refrigerant as it passes through the instrument.
 - Doesn't trigger on high concentrations, liquid or moisture like other types of detectors.
 - Senses change in refrigerant levels, working even in contaminated environments.
- VOYAGER-IR designed for HVAC e A/C:
- 3 Sensitivity Levels (4gr/yr).
 - Audible alarm and optimized graphics on large LCD screen.
 - High quality sturdy probe.
 - Peak / Mute buttons and connection for earphone.
 - Ergonomic design.
 - Sturdy case.
 - Complies with EN14624:2012, SAE J1627, SAE J2791, SAE J2913.

VOYAGER



INFRARED

Code	Model	Dimensions	Weight
09001116	VOYAGER-IR	330 x 240 x 70 mm	1,2 kg



Detects all halogenated refrigerants, including:

CFC	R12-R11-R500-R503
HCFC	R22-R123-R124-R502
HFC	R134a-R404A-R125-R407C-R507-R410A-R32
HFO	R1234yf e R1234ze



CE N 1516/2007: Methods of direct measurement

ARTICLE 6

Gas detection devices referred to in paragraph 1(a) shall be checked every 12 months to ensure their proper functioning. The sensitivity of portable gas detection devices shall be at least five grams per year.

TECHNICAL FEATURES

Technology	Infrared
Maximum sensitivity	4 g/year
Warm-up time	Automatic
Response time	<30 seconds
Operating temperature	< 3 seconds
Temperatura operativa	-20°C +60°C
Probe Length	40 cm
Power supply	Rechargeable lithium-ion battery
Batteries life	6 hours continue
Compliance	CE n. 1516 2007

VOYAGER

Semi-conductor electronic leak detector

VOYAGER combines multiple instruments in a single ally ready to support you in the different needs and detection strategies you decide to apply.

It detects efficiently all **HFC, CFC, HCFC, HFO halogenated refrigerants** and their mixtures (including A2 such as R32 or R1234yf).

It also extends its versatility by detecting HC hydrocarbons (such as R290 and R600a) and the **AZOIDRO mixture** (95% Nitrogen-5% Hydrogen) designed specifically for pressurisation for leak detection, **without the need to purchase an additional sensing element**.

The sensing element protection chamber, the **lithium-ion battery** and the new robust ergonomic design with **large colour LCD screen** further enhance this ideal leak detection instrument for maintenance and repair with the readiness and versatility of the new heated diode sensor.

- Multiple sensitivity levels (3gr/year).
- Sound alarm and optimized graphics on LCD screen.
- "Mute" button and headphone connection.
- Peak button.
- Ergonomic handle.
- High quality sturdy probe.
- Complies with EN14624: 2012, SAE J1627.



Code	Model	Dimensions	Weight
09001115	VOYAGER	330 x 240 x 70 mm	1,0 kg



Detects all halogenated refrigerants, including:

CFC	R12 - R11 - R500 - R503
HCFC	R22 - R123 - R124 - R502
HFC	R134a - R404A - R125 - R407C - R507 - R410A - R32
HFO	R1234yf - R1234ze
HC	R600a - R290
N2-H2	Azoidro



CE N 1516/2007: Methods of direct measurement

ARTICLE 6

Gas detection devices referred to in paragraph 1(a) shall be checked every 12 months to ensure their proper functioning. The sensitivity of portable gas detection devices shall be at least five grams per year.



Calibration

Code	Model	Description
09053009005		Calibration report for leak detector
0900115001	VOYAGER/RT	Leak detector with calibration report



Spare parts and accessories

Code	Model	Description
09050111	V-EL1	Sensing tip for VOYAGER
09050117	V-B1	Lithium battery for VOYAGER - VOYAGER-IR
09050121	V-F3	Kit of filters for VOYAGER-VOYAGER-IR (3 pcs)

TECHNICAL FEATURES

Technology	Semi-conductor
Maximum sensitivity	3 g/year
Warm-up time	Automatic
Response time	<60 seconds
Operating temperature	<3 seconds
Probe Length	40 cm
Power supply	Rechargeable lithium-ion battery
Batteries life	6 hours continue
Compliance	CE n. 1516 2007

ELECTRONIC LEAK DETECTOR



ELD-H

Electronic leak detector

- Lightweight and ergonomic design.
- Both visual and audible leak detection signal.
- Simple, one button operation.
- Two sensitivity modes.
- Low battery indicator.
- Automatic power-off to preserve battery life.



Code	Model	Dimensions	Weight
09001081	ELD-H	310 x 210 x 80 mm	0,9 kg



Detects ALL halogenated refrigerants, including:

CFC	R12-R11-R500-R503
HCFC	R22-R123-R124-R502
HFC	R134a-R404A-R125-R407C-R507-R410A-R32
HFO	R1234yf e R1234ze



CE N 1516/2007: Methods of direct measurement

ARTICLE 6

Gas detection devices referred to in paragraph 1(a) shall be checked every 12 months to ensure their proper functioning. The sensitivity of portable gas detection devices shall be at least five grams per year.



Calibration

Code	Model	Description
09053009005		Calibration report for leak detector
09001081001	ELD-H/RT	Leak detector with calibration report



Spare parts and accessories

Code	Model	Description
09050073	ELS-H	Sensing tip for ELD-H

TECHNICAL FEATURES

Technology	Negative corona
Maximum sensitivity	Automatic
Calibration	<2 seconds
Response time	Instant
Probe Length	30 cm
Power supply	2x 1,5V alkaline batteries AA
Batteries life	40 hours
Compliance	CE n. 1516 2007

ELD-C EX

Combustible gas leak detector

Ideal for locating leaks in industrial, commercial and residential refrigeration and heating systems, ELD-C EX detects combustible gas concentrations of up to 5 ppm.

- ATEX Zone 2 Certified (ATEX II 3G Ex nA IIA T3 Gc)
- Self-calibrating and with low maintenance.
- Sensitivity less than 50 ppm. (Propane, Iso-butane, Methane).
- Light and ergonomic.
- Visual and audible leak detection signal.

Gases detected: propane, methane, iso-butane, natural gas, acetone, hesean, acetylene, benzene, ethanol, gasoline, hydrogen, naphtha, GPL, etc.



ATEX II 3G Ex nA IIA T3 Gc



Code	Model	Dimensions	Weight
0900117	ELD-C EX	310 x 210 x 80 mm	0,90 kg

TECHNICAL FEATURES

Technology	Semi-conductor	Response time	5 seconds
Maximum sensitivity	<50 ppm	Probe Length	30 cm
Calibration	Automatic	Power supply	2 x 1,5V AA alk. bat.
Warm-up time	from 25 to 90 s	Batteries life	11 hours



Spare parts

Code	Model	Description
09050074	ELS-C	Sensing tip for HC
09050109	ELS-A	Sensing tip for AZOIDRO

EX-DETECTOR

Personal detector for flammable (R290)

- Personal detector specifically designed for HC-R290, ideal for monitoring and controlling work areas during service operations.
- Alarms are triggered according to different %LEL threshold levels.
- Audible, visual and vibration alarms.
- Suitable for ATEX Zone 2.
- IP68 protection degree.
- Compact dimensions and easy attachment system fo belt/clothing.
- Supplied with connector for calibration/test cylinders.



ATEX II 3G EG da ia IIC T4 Gc

Code	Model	Description	Dimensions	Weight
09001118	EX-DETECTOR	Personal R290 detector	260 x 70 x 70 mm	0,6 kg
09050125	BUMP/RID	Regulator for calibration cylinder	-	-
09050126	BUMP/BOT	Calibration test cylinder	-	-

TECHNICAL FEATURES

Measuring range	0-100%LEL	Alarm decibel	≥95dB
Resolution	1%LEL	Measuring unit	%LEL
Precision	± 10%	Detected	HC-R290



CO₂ (R744) LEAK DETECTOR



VOYAGER-R744

Infrared leak detector for CO₂ (R744)

VOYAGER-R744 is equipped with an infrared sensor specifically for CO₂ (R744) that offers superior accuracy, insensitivity to false alarms and extended service life.

The robust construction with unique ergonomic design, the innovative large LCD display and the rechargeable lithium-ion batteries make the infrared leak detector not only extremely reliable, but also very intuitive and easy to use.

- 3 sensitivity levels (L/M/H).
- Audible alarm and optimised graphics on large LCD screen.
- High-quality, durable double-barrier probe.
- "Mute" button and connection for headphones.
- Peak storage function.
- Automatic calibration.
- Ergonomic grip.
- Sturdy case with battery charger and 5 spare tips with filters.

Code	Model	Dimensions	Weight
09001119	VOYAGER-R744	330 x 240 x 70 mm	1,2 kg

TECHNICAL FEATURES

Tecnology	infrared
Maximum sensitivity	<6 g/year
Calibration	Automatic
Warm-up time	<30 seconds
Response time	<3 seconds
Probe length	40 cm
Power supply	Rechargeable lithium-ion battery
Batteries life	8 consecutive hours
Compliance	CE, SAE J1627, EN14624

INFRARED



RL-134/H2N2 • RL410/32 • RL-290

Reference leak

- It checks the efficiency of your electronic leak detector.
- Calibrated at 5g/year for R134a or R410A.
- Suitable for standard refrigerant cylinders (1/4"SAE connection).
- No expiry date.

The RL series reference leak allows to check the efficiency of your leak detector at regular intervals even during a leak detection operation.

This helps to identify quickly any problems to the sensor or the batteries that could affect the performances of the instrument.

When the refrigerant leak is connected to a R134a or R410A refrigerant cylinder, it produces a 5g/year leakage. If the leak detector "sniffs" the leakage, then it is considered suitable for use.

The RL series reference leak does not allow to issue calibration reports and/or certificates and is not certifiable itself.

Is my leak detector "working"?

The RL series reference leak answers your question!

Easy checking and immediate answer



B



Ref	Code	Model	Description
A	09050099	RL-134/H2N2	Reference leak for R134a and Azoidro- 5g/year
A	09050100	RL-410/32	Reference leak for R410A/R32 - 5g/year
A	09050113	RL-290	Reference leak for R290 - 5g/year
B	11001090	WR1K/134	Cartridge R134a - 900g
B	11001088	WR1K/410	Cartridge R410A - 800g
C	05001003001	121-RG-4	Valve for WR1/134 1/4"F swivel x 1/4"M
C	05001033001	121-RG5-4	Valve for WR1/410 5/16"F swivel x 1/4"M

Ref	Code	Dimensions	Weight
A	09050099	55 x 25 x 25 mm	0,03 kg
A	09050100	55 x 25 x 25 mm	0,03 kg
A	09050113	55 x 25 x 25 mm	0,03 kg
B	11001090	240 x 80 x 80 mm	2 kg
B	11001088	240 x 80 x 80 mm	2 kg
C	05001003001	140 x 100 x 20 mm	0,1 kg
C	05001033001	140 x 100 x 20 mm	0,1 kg



For use with R134a, R410A and R32



A Connect the reference leak to the cylinder valve (closed). Bring the leak detector sensor near to the white positioner.



B Open the cylinder valve..



C If the performances of the leak detector are OK (5g/year), the instrument will answer within a few seconds.

For use with AZOIDRO

Connect to an Azoidro cartridge through a pressure regulator calibrated at 9 bar.

SPRAY LEAK DETECTOR



GAS-CONTROL

Spray leak detector

It is designed to check the tightness of systems operating with type of gas. The liquid has a special formula against corrosion if used on copper, brass and steel. In conformity with DIN EN 14291.

Leaks are detected by the formation of bubbles or foam.

Code	Model	Capacity	Min. Qty	Dimensions	Weight
09001080	GAS CONTROL	400 ml	10	340 x 140 x 200 mm	4,8 kg



32850 SURE CHECK

“Sure Check” leak detector

- Gases detected: propane, methane, iso-butane, natural gas, acetone, acetylene.
- Formula for all temperatures: from -48°C to 93°C (from -55°F to 200°F).
- Ultra sensitive; long-lasting bubbles.
- Fluorescent bubbles for better visibility.
- Not corrosive, non-toxic.
- Can be used with refrigerants, natural gas, propane and oxygen.

Code	Model	Capacity	Dimensions	Weight
09001024	32850	473 ml	260 x 70 x 70 mm	0,6 kg

TELESCOPIC MIRRORS



Ref	Code	Model	Description	Dimensions	Weight
A	08008052	WSR-2149	5 x 9 cm	410 x 80 x 30 mm	0,15 kg
B	08008024	WSR-2146	Ø5 da 21,5 a 45 mm	410 x 80 x 30 mm	0,15 kg

LEAK-STOP

Stop leak system for HVAC systems

The easy and fast solution to seal with just one application all the leaks that are difficult to detect and reach with conventional tools.

- Usable with all refrigerants.
- Compatible with 100% of the systems on the market.
- Complete compatibility with gaskets and seals of the HVAC system.

Standard equipments:

- 1 injection system.
- 2 LEAK-STOP cartridges (30 ml).
- 1 flexible hose with ball valve.



2 pcs of 30 ml cartridges INCLUDED in the kit.

Code	Model	Dimensions	Weight
12001047	LEAK-STOP-HVAC	240 x 145 x 40 mm	0,4 kg

TECHNICAL FEATURES

HVAC system refrigerating capacity	Suggested fluid quantity
< 18000 BTUH 300ml oil	30 ml
18000 ÷ 60000 BTU/H 900ml oil	60 ml
60000 ÷ 120000 BTU/H >900ml oil	30ml ogni 600ml of oil
>120000 BTU/H	30ml ogni 1200ml of oil



Spare parts and accessories



Ref	Code	Model	Description	Capacity	Connections
A	12001048	K-LS	Kit of 2 cartridges	30 ml	-
B	05059023001	RG180/5-4	Straight adapter	-	5/16" SAE F swivel x 1/4" SAE M
C	13005067	UV-CLEAN250	Additive cleaning spray	250 ml	

UV LEAK DETECTION

TORCH-PRO-60-KIT

Leak detection kit with UV lamp

Standard equipment:

- 1 TORCH-PRO high performance 365nm lamp with goggles.
- 1 Plastic injector.
- 1 Flexible hose 1/4" SAE with check valve.
- 1 RG180/5-4 Adapter 5/16" SAE F swivel x 1/4" SAE M.
- 1 Dye bellow cartridge 60ml (10 doses).
- 1 Detergent 250 ml.
- 1 Battery charger.
- 1 Rechargeable battery.



Code	Model	Description
09001110	TORCH-PRO-60-KIT/HVAC	Complete kit

Code	Dimensions	Weight
09001110	380 x 300 x 100 mm	1,5 kg



Spare parts and accessories



Ref	Code	Model	Description	Min. Qty	Dimensions	Weight
A	09001108	TORCH-PRO	PRO-UV high performance 365nm lamp with goggles		80 x 190 x 70 mm	0,5 kg
B	14028028	BELLOW-IN36	Plastic injector for bellow cartridges		190 x 87 Ø mm	0,3 kg
C	12001058	UV-BELLOW-60	Dye bellow cartridge 60ml (10 doses)		110 x 36 Ø mm	0,07 kg
D	12099008	BELLOW-HOSE-HRV	1/4 adapter hose with no return valve	6 pcs.	-	-
	05059023001	RG180/5-4	Adapter 5/16" SAE F swivel x 1/4" SAE M		-	-
E	13005067	UV-CLEAN250	Detergent 250 ml		190 x 87 Ø mm	0,27 kg
F	14029066	VP/TORCH	Plastic case for TORCH-PRO		380 x 300 x 100 mm	-

OJ

Aluminium injectors

Code	Model	Description
14028005	OJ/4	1/4"SAE aluminium injectors
14028006	OJ/6	3/8"SAE aluminium injectors
14028007	OJ/A	1/2"16ACME aluminium injectors



UV-CAN350

Universal dye

Code	Model	Capacity	Min. Qty
12001082	UV-CAN350	350 ml	10 pcs

Code	Dimensions	Weight
12001082	90 x 180 x 40 mm	0,27 kg



UV-CLEAN250

Dye cleaner

The citrus based biodegradable cleaner which has been specially formulated to remove spillage and residues of additives. It is also very effective on greases, adhesives, dirt, tar and gummy deposits. UV-CLEAN250 is harmless to most surfaces, and is safe to use on all metals.

Code	Model	Capacity	Dimensions	Weight
13005067	UV-CLEAN250	250 ml	190 x 87 Ø mm	0,27 kg



THERMOMETERS COMPARATIVE TABLE

	X-TFC	TIR-50C	SA 880 SSX	TFC-502	THA-300
					
Thermometer	✓	✓	✓	✓	✓
Hygrometer	no	no	no	no	si
Measurement technology	Thermocouple	Infrared	Contact	Contact (2 probes)	Contact
Measured distance ratio	-	16:1	-	-	-
Emissivity	-	Adjustable (0,1 - 1,0)	-	-	-
Supported probes	-	-	-	K, J	-
Measuring units	°C, °F				
Measurement range	-40 ÷ 150°C	-50 a 800 °C	-50 a 300 °C	-200 a 1375 °C (K)	-10 a 45 °C
Resolution	0,1°C	1 °C	0,1°C (19,9 a 199,9°C) 1°C (Other)	0,1 °C	0,2°C
Accuracy	+/- 0,5°C	± 2,5% reading	± 1°C (-20 a 80°C) ± 5°C (Other)	± 0,05% reading (K)	± 2°C
Measurement range Rh%	-	-	-	-	5% ÷ 95%
Power supply	Rechargeable lithium battery	1x9V alkaline batteries	1 x DC1,5V alkaline batteries	1 x 9V alkaline batteries	2 x 1,5V alkaline batteries
Dimensions	180 x 100 x 30 mm	190 x 90 x 60 mm	107 x 60 x 20 mm	200 x 120 x 60 mm	170 x 85 x 40 mm
Weight	0,115 kg	0,16 kg	0,11 kg	0,5 kg	0,2 kg

X-TFC

Clamp temperature probe

- Fully independent device thanks to its 1" OLED display and onboard control.
- Thermocouple sensor for higher accuracy (+/- 0.5°C).
- Built-in memory.
- Rechargeable lithium battery (USB-C).
- Bluetooth 5.0 connection for MyWIGAM App and WIGAM Smart Tools.
- Compatible with all digital manifolds of the X-MAN range.
- MyWIGAM App (iOS and Android) with real-time data and reports.
- Data from multiple devices, such as temperature probes and additional gauges, are combined within the MyWIGAM App to provide a complete overview.



Ref	Code	Model	Description
A	09011061	X-TFC	Bluetooth clamp probe
B	09011063	K-X-TFC	Kit of 2 probes in protective bag



K-X-TFC
with 2 probes included

TECHNICAL FEATURES

Temperature range	-40 ÷ 150°C	Unit of measure	°C, °F; K
Resolution	0,1°C	Bluetooth operating range	100m
Accuracy	+/- 0,5°C	Power supply	Rechargeable lithium battery (USB-C)



Calibration

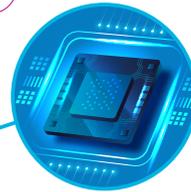
Code	Description
09053057	Calibration report for X-TFC
09011061001	X-TFC/RT probe with calibration report



Up to 40 mm



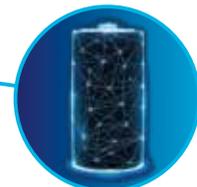
Bluetooth technology



Built-in memory for up to 3000 recordings



Stand-alone



Rechargeable lithium battery (USB-C)

THERMOMETER AND PROBE



TFC-502

Digital thermometer with dual probes

Code	Model	Dimensions	Weight
09011021	TFC-502	200 x 120 x 60 mm	0,5 kg

TECHNICAL FEATURES

Measuring range (K probe)	-200 °C; 1375°C	Accuracy	+/-0,05% rdg+0,3°C
Measuring range (J probe)	-200°C ÷ 1050°C	Units of measurement	°C / °F
Supported probes	K - J	Programmable HIGH or LOW temperature	Yesi
Resolution	0,1°C		



Calibration

Code	Model	Description
09053006		Calibration report ref. Accredia for thermometers with 2 calibrated probes
09011021001	TFC-502/RT	Thermometer with calibration report

TYPE K PROBES



Strip suitable
for hoses max.
diameter 80 mm

Max opening 36 mm

Ref	Code	Model	Description	Measuring range	Cable length	Dimensions	Weight
A	09012013	TK109	Fiber glass insulated thermocouple	-50 +200°C	3 mt	100x80x10mm	0,02 kg
	09053005		Calibration report ref. Accredia for TK109				
B	09012037	TK109-STRIP	Fiber glass insulated thermocouple with strip	-50 +200°C	3 mt	100x80x10mm	0,02 kg
	09053005		Calibration report ref. Accredia for TK109				
C	09012019	TK104	Fast reacting probe for air and gases	-50 +800°C	27 cm	380x100x10mm	0,12 kg
	09053001		Calibration report ref. Accredia for TK104				
D	09012016	TK106	Insertion probe for food-stuff, plastic, rubber etc.	-50 +700°C	27 cm	380x100x10mm	0,09 kg
	09053003		Calibration report ref. Accredia for TK106				
E	09012020	TK105	Surface probe	-50 +400°C	27 cm	380x100x10mm	0,14 kg
	09053002		Calibration report ref. Accredia for TK105				
F	09012017	TK107	Clamp on probe for measurements on pipes	-50 +120°C	54 cm	230x100x40mm	0,16 kg
	09053004		Calibration report ref. Accredia for TK107				

TIR-50C

Infrared thermometers

- Non-contact measurement with laser pointer.
- Wide range of applications: checking foodstuffs on stands, pallets or inside warehouses and means of transport, checking of temperature in inaccessible or dangerous places.
- Auto Power off after 4 seconds of non-operation.
- Adjustable emissivity (0.1 - 1.0).
- Backlit digital display for use in dark areas.
- Maintain the displayed value.
- Laser class II.
- °C/F switchable.
- Battery indicator.



Code	Model	Dimensions	Weight
09011060	TIR-50C	190 x 90 x 60 mm	0,16 kg

TECHNICAL FEATURES

Measuring range	-50 ÷ 800°C
Distance	spot Ratio 16:1
Accuracy	±2,5% reading
Repeatability	1% reading 1°C
Response time	500 msec
Operating environment	0°C ÷ 60°C
Storage temperature	-20°C ÷ +60°C (battery-free)
Resolution	1 °C
Batteries	9 Volt X 1
Batteries life	12 hours
Laser sight	YES

SA 880 SSX

Digital thermometer

Code	Model	Dimensions	Weight
09011031	SA 880 SSX	107 x 60 x 20 mm	0,11 kg

TECHNICAL FEATURES

Measuring range	-50 ÷ +300°C
Probe	100 mm. stainless steel
Resolution	0,1°C (-19,9°C ÷ 199,9°C)
Measuring units	°C/°F
High or low temperature programmable	Yes



THERMOMETERS

ST09/ST10

Digital thermometer



Ref	Code	Model	Dimensions	Weight
A	09011023	ST09	210 x 80 x 20 mm	0,04 kg
B	09011050	ST10	240 x 70 x 20 mm	0,04 kg

TECHNICAL FEATURES

	ST09	ST10
Temperature range	-40 ÷ 200°C	-50 ÷ 300°C
Temperature resolution	0,1°C	1°C (>205°C) 0,1°C (altre)
Power supply	DC 1,5V LR44	DC 1,5V LR44
Dimensions	20 x 150 mm	20 x 207 mm



EWTL300

Digital LCD thermometer

Code	Model	Dimensions	Weight
09011033	EWTL300	60 x 70 x 20 mm	0,04 kg

TECHNICAL FEATURES

Temperature range	-50 ÷ 70°C
Temperature resolution	0,1°C
Probe	1 mt
Power supply	DC 1,5V LR44
Dimensions	48 x 48 x 16 mm



F87 R100

Thermometer with reversible flange

Code	Model	Flange diameter	Measuring range
09011019	F87 R100	100 mm	-40 ÷ +40°C

Code	Dimensions	Weight
09011019	100 x 100 x 50 mm	0,08 kg



ROF 88

Telethermometer

Code	Model	Measuring range	Dimensions	Weight
09011008	ROF 88	-40 ÷ +40°C	100 x 100 x 30 mm	0,06 kg

MINIDISQUES

JRI remote temperature recorders

- Small size makes recorder suitable for panel mounting.
- Continuous 7 days' recording on Ø 125 mm chart.
- Stainless steel sensor with 3 mt long capillary tube.
- Complete with wall - mounting bracket, door panel and key lock and 100 recording charts.
- Quartz chart movement, power supply 1 x 1.5V battery; average battery life is 6 months (at 20°C).



DESIGNED IN CONFORMITY WITH EUROPEAN DIRECTIVES 92/1, 93/43, NF E 18-150 AND EN 12830 STANDARD



Single probe temperature recorders

Code	Model	Measuring range	Recording period	Recording chart	Fiber pen	Dimensions	Weight
09008005	13052.11	-35 to +15 °C	7 days*	D3169	97601	230 x 200 x 170 mm	1,5 kg
09008011	13023.11	-10 to +40 °C	7 days*	D3174	97601	230 x 200 x 170 mm	1,5 kg
09008008	13019.11	-100 to +50 °C	7 days*	D3230	97601	230 x 200 x 170 mm	1,5 kg

* The recording period can be changed in 24h just by moving the lever on the movement and placing a 24h chart.

Other models with different measuring ranges are available on request.



Spare parts

Code	Model	Description	Measuring range	Recording period	Min. Qty
09009001	D3169	Recording chart	-35 to +15 °C	7 days	100
09009003	D3174	Recording chart	-10 to +40 °C	7 days	100
09009002	D3230	Recording chart	-100 to +50 °C	7 days	100
09010001	97601	Fiber pen	-	-	-
09052001	1T/7	Quartz movement motor	-	-	-

DIGITAL THERMO-HYGRO-ANEMOMETER AND CLAMP METER




THA-300

Digital thermo-hygro-anemometer

Main features:

- Air velocity measurement.
- Temperature measurement.
- Humidity measurement.
- Dew point temperature measurement.
- Current, maximum, minimum and average air velocity measurement.
- Energy-saving function.
- Backlight function.
- Automatic/manual shut-off function.
- Anti-interference touch buttons.

Code	Model	Dimensions	Weight
09011062	THA-300	190 x 60 x 50 mm	0,2 kg

TEMPERATURE

Measuring range	-10°C ÷ 45°C
Resolution	0,2°C
Accuracy	± 2°C
Units of measurement	°C - °F

HUMIDITY

Measuring range	5% ÷ 95% RH
-----------------	-------------

AIR VELOCITY

Measuring range	0.3 ÷ 40 m/s
Resolution	0,1 m/s
Accuracy	± 5%

ESSENTIAL FOR CHECKING THE
INVERTER EQUIPMENT



CLAMP-ONE

Wireless digital clamp meter

- Maximum reading of 3999.
- High quality test leads.
- ACA Measurement up to 1000A.
- Ohm, Diode, Continuity, Capacitance, Frequency and Duty input Protection to 750V DA/AC rms.
- Diode test and Audible continuity check function.
- Auto power off to preserve battery life.
- Display back-light feature.
- Provides DATA-HOLD, RELATIVE.
- Complete with external temperature probe.

Code	Model	Dimensions	Weight
09006008	CLAMP-ONE	225 x 97 x 40 mm	0,45 kg

ELECTRICAL SPECIFICATIONS

	Range
DC voltage	400mV, 4V, 40V, 400V, 1000V
AC voltage	4V, 40V, 400V, 750V
DC current	200A, 1000A
AC current	400A, 1000A
Resistance	400Ω, 40KΩ, 400KΩ, 4MΩ, 40MΩ
Quantity	512 4F, 5, 12 4F, 51,2 4F, 100 4F
Temperature	-20 ÷ 1000 °C
Frequency	5.12Hz, 51.2Hz, 512Hz, 5.12kHz, 512kHz, 5.12MHz
Duty current	0,1% ÷ 99,9%



Calibration

Code	Description
09053017	Calibration report ref. Accredia for clamp-on meter
09006008001	CLAMP-ONE/CT. Clamp-on meter with calibration report

RELAYS

ICG

Relays and hard starts for refrigeration systems without run capacitors.

Code	Model	Dimensions	Weight
09016002	ICG-220	140 x 120 x 20 mm	0,05 kg



RO

Relays and hard starts for refrigeration systems without run capacitors.

Code	Model	Dimensions	Weight
09016001	RO-82	140 x 120 x 40 mm	0,07 kg
09016004	RO-62	140 x 120 x 40 mm	0,07 kg
09016003	RO-42	140 x 120 x 40 mm	0,07 kg



PO

Relays with overload combination.

Code	Model	Dimensions	Weight
09016017	PO-230	120 x 100 x 20 mm	0,03 kg



RCO

3 n°1 Start Relay.

Code	Model	Dimensions	Weight
09016033	RCO-820	190 x 180 x 40 mm	0,20 kg
09016009	RCO-620	190 x 180 x 40 mm	0,20 kg
09016011	RCO-420	190 x 180 x 40 mm	0,20 kg



Comparative table

	ICG-220	PO-230	RO-82	RO-62	RO-42	RCO-820	RCO-620	RCO-420
Relay	x	x	x	x	x	x	x	x
Overload	-	-	x	x	x	x	x	x
Start capacitor	-	-	-	-	-	x	x	x
Mounting	Quick connect							
HP rating	1/12÷1/2	1/12÷1/2	1/12÷1/8	1/6÷1/5	1/4÷1/3	1/12÷1/8	1/6÷1/5	1/4÷1/3
Voltage	230	230	230	230	230	230	230	230

STARTERS E TIMERS



SPP

Starter

Increases starting torque up 250% to 600%.

Code	Model	Dimensions	Weight
09016015	SPP	120 x 100 x 20 mm	0,03 kg
09016012	SPP5	190 x 150 x 40 mm	0,15 kg
09016022	SPP6	200 x 60 x 60 mm	0,30 kg
09016034	SPP7S	300 x 140 x 40 mm	0,28 kg



Comparative table

	SPP	SPP5	SPP6	SPP7S
Voltage	90 - 277	90 - 277	90 - 277	90 - 277
Recommended range HP	1/2 ÷ 10	1/2 ÷ 10	1/2 ÷ 10	1/2 ÷ 10
Increase in torque	250%	300%	500%	600%
Capacitor	-	X	X	X

EDT

Electronic adjustable defrost timer

Replaces most timers being used in today's domestic refrigerators and freezers!

The new energy efficient "EDT" electronic adjustable defrost timers were designed and developed by Supco engineers. They offer numerous advantages over conventional electro-mechanical defrost timers presently being used. The "EDT" has a two dial adjustment configuration that allows for the setting of any defrost frequency from 4 to 12 hours and any defrost time from 10 to 35 minutes. Quiet operation and repeat reliability is unmatched.

Features:

- Standard size and mounting to fit most applications.
- Standard terminal configuration to accommodate most connections.
- No ground wire.
- Dustproof case.
- State of the art extra long life electronic circuitry.



Code	Model	Voltage	Max. compressor	Max resistive load	Dimensions	Weight
09016013	EDT20	208/240 VAC	1/3 HP	5 Amp	240 x 110 x 40 mm	0,10 kg
09016035	EDT21	208/240 VAC	3/4 HP	20 Amp	240 x 110 x 40 mm	0,12 kg

TD69

TD series delay on make timers (Dom)

For protection of HVAC/R equipment, the Td series of time delays provide the solution, choose the delay on make, delay on break or by-pass timer that solves the problem.

Applications:

- Multi Purpose "Delay on Make" timing.
- Protects air-conditioning, refrigeration and heat pumps from damage which may be caused by short cycling of compressor.
- For compressor staging and stagger starting multiple units.
- Helps to reduce power surges in multiple compressor applications.



Technical features:

- Delay range (adj.): 6 sec. to 8 min.
- Delay range (fixed): 3/5 min.
- Initiate timer: 70 millsec.
- Input voltage: 19 to 250 VAC/VDC, 56/60 Hz.
- Max load: 1 amp - 10 amp in rush.
- Temperature: -18°C +71°C.
- Dimensions: 50,8 x 50,8 x 19 mm.
- Mount: 1 hole only for mounting.
- Connections: 1/4" M.

Code	Model	Delay period	Dimensions	Weight
09016016	TD69	6 sec ÷ 8 min	130 x 90 x 40 mm	0,05 kg

TOOLS - VALVES - FITTINGS

- Flaring tools 148-151
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RATCHET FLARING TOOL



**LIGHT ALLOY
WEIGHT 1030 G**



W850-AVIO

Ratchet flaring tool with clutch and ratchet

- Body and bar in lighter aluminium.
- Possibility to operate with the manual ratchet or with an electric screwdriver.
- Standstill device for copper tube.
- Bar fast disconnecting system.

Code	Model	For OD tubing
08001028	W850-AVIO	1/4" - 5/16" - 3/8" - 1/2" - 5/8" - 3/4"
08001029	W850M-AVIO	6-8-10-12-16-18 mm

Code	Dimensions	Weight
08001028	250 x 220 x 50 mm	1,4 kg
08001029	250 x 220 x 50 mm	1,4 kg



Possibility to operate by manual ratchet and electric drill.



Standstill device for copper tube.



Bar fast disconnecting system.



Supplied in a plastic case



Ricambi

Code	Description
08050060	Yoke for W850-AVIO
08050059	Ratchet for W850-AVIO
08050066	Bar mm per W850-AVIO
08050062	Bar inch for W850-AVIO



W810A

Eccentric flaring tool with clutch and ratchet

- Robust and reliable.
- Case included



Code	Model	For OD tubing
08001024	W810A	1/4" - 3/16" - 5/16" - 3/8" - 1/2" - 5/8" - 3/4"

Code	Dimensions	Weight
08001024	250 x 220 x 50 mm	1,9 kg



Spare parts and accessories

Code	Description	For OD tubing
08050043	Bar in mm for W810A	6-8-10-12-14-16-19 mm
08050058	Yoke for W810A	

FLARING TOOLS

UNIVERSAL FLARING TOOL

Ref	Code	Model	For OD tubing	Dimensions	Weight
A	08001020	W525	3/16" ÷ 5/8" 4,7 ÷ 16 mm	160 x 120 x 30 mm	0,85 kg
B	08001001	525F	5 ÷ 16 mm 3/16" ÷ 5/8"	200 x 120 x 30 mm	0,86 kg



FLARING TOOL IN INCHES

Code	Model	For OD tubing	Dimensions	Weight
08001027	W195	3/16"-1/4"-5/16" 3/8"-7/16"-1/2"-5/8"	200 x 130 x 30 mm	1 kg



FLARING TOOL IN INCHES

Ref	Code	Model	For OD tubing	Dimensions	Weight
A	08001023	W500	3/16"-1/4"-5/16"-3/8"-1/2"-5/8"	200 x 130 x 30 mm	0,9 kg
B	08001005	500FC	3/16"-1/4"-5/16"-3/8"-1/2"-5/8"	250 x 220 x 50 mm	2 kg



FLARING AND SWAGING TOOL

Code	Model	For OD tubing	Dimensions	Weight
08001019	W275L	1/8" - 7/16" - 1/4" - 5/16" 3/8" - 1/2" - 5/8" - 3/4"	330 x 150 x 40 mm	2,1 kg



UNIVERSAL OIL FOR FLARES

Universal oil essential for the flare lubrication, during flaring operation and before clamping with torque wrenches.

Code	Model	Min. Qty	Capacity	Dimensions	Weight
12002015	FO-200	12	200 ml	170 x 50 x 50 mm	0,2 kg



RATCHET FLARING TOOL

TUBE
CUTTER
BW432
P. 152



BLUE LINE
WIGAM

BW-830

Ratchet flaring tool with clutch and ratchet

- Body and bar in aluminium.
- Possibility to operate by manually or with an electric screwdriver.
- Tube standstill device.
- Carrying case with compartment for BW432 tube cutter.

Code	Model	For OD tubing
08001030	BW-830	1/4" - 5/16" - 3/8" - 1/2" - 5/8" - 3/4"
08001032	BW-830M	6 - 8 - 10 - 12 - 16 - 19

Code	Dimensions	Weight
08001030	270 x 220 x 65 mm	1,45 Kg
08001032	270 x 220 x 65 mm	1,45 Kg



Standstill device
for copper tube



Carrying case with compartment
for BW432 tube cutter



Possibility to operate by manual ratchet
and electric screwdriver



UNIVERSAL OIL FOR FLARES

Universal oil essential for the flare lubrication, during flaring operation and before clamping with torque wrenches.

Code	Model	Min. Qty	Capacity	Dimensions	Weight
12002015	FO-200	12	200 ml	170 x 50 x 50 mm	0,2 kg

THOR

Automatic flaring tool with lithium battery

- Optimal sealing surface finish thanks to the flaring process with polishing cycle.
- Powerful and efficient brushless motor for over 200 flares with a single charge.
- Easy to connect thanks to the copper pipe stop device and triple connection angle.
- Fully automatic flaring process operated by a single button.
- Built-in lithium battery, 9800 mAh - 11.1 V.
- Built-in LED light for the working area.
- Supplied with sturdy carrying case and a fast battery charger.

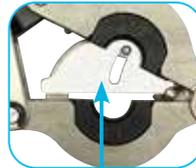
Kit includes:

- Heavy-duty clamps and heads for 1/4"-3/8"-1/2"-5/8"-3/4" pipes.
- Battery charger.



Code	Model	For OD tubing
08001031	THOR	1/4" - 3/8" - 1/2" - 5/8" - 3/4"

Code	Dimensions	Weight
08001031	270x120x350 mm	3,5 Kg



Stop device for correct pipe positioning

Powerful and efficient brushless motor



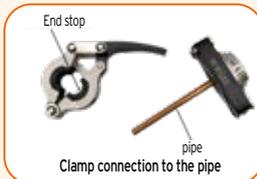
Spare parts and accessories

Code	Model	Description
08050069	TH-MORS	Clamp for THOR
08050070	TH-T1/4	1/4" SAE replacement head for THOR
08050071	TH-T3/8	3/8" SAE replacement head for THOR
08050072	TH-T1/2	1/2" SAE replacement head for THOR
08050073	TH-T5/8	5/8" SAE replacement head for THOR
08050074	TH-T3/4	3/4" SAE replacement head for THOR
08050075	TH-BAT	Replacement battery kit for THOR

mm heads will also be available as accessories.



Operating sequence



We recommend using F0200 oil for flaring operations

TUBE CUTTERS

BLUE LINE
WIGAM

BW TUBE CUTTERS

Tube cutters with anti-ovalization technology

- Spare blade included.
- Heavy-duty blade.



Ref	Code	Model	For OD tubing
A	08002026	BW316	1/8" ÷ 5/8" 3 ÷ 16mm
B	08002027	BW432	3/16" ÷ 1-1/4" 4 ÷ 32mm
C	08002028	BW654	1/4" ÷ 2-1/8" 6 ÷ 54mm



Spare blade included



Anti-ovalization technology



Heavy-duty blade



Spare parts

Code	Model	Description
08052021	BLADE-316/432	Kit 5 pcs blades for BW316/432
08052022	BLADE-654	Kit 5 pcs blades for BW654



REAMERS



Ref	Code	Model	Description
A	08008034	W209	Inner/outer reamer
B	08008049	W210	Pen reamer with blade container and spare blade
C	08008050	W211	Pen reamer

Ref	Code	Dimensions	Weight
A	08008034	60 x 60 x 60 mm	0,22 kg
B	08008049	240 x 80 x 20 mm	0,05 kg
C	08008050	220 x 80 x 20 mm	0,05 kg



Spare parts

Code	Model	Description
08008055	W210B	Blade for W210
08008056	W211B	Blade for W211

TUBE CUTTERS



Ref	Code	Model	For OD tubing	Dimensions	Weight
A	08002019	W127	1/8" ÷ 5/8" 4 ÷ 16 mm	60 x 40 x 30 mm	0,10 kg
B	08002017	W274	1/8" ÷ 1-1/8" 4 ÷ 28 mm	130 x 60 x 40 mm	0,30 kg
C	08002018	W312	1/4" ÷ 1-5/8" 7 ÷ 41 mm	150 x 70 x 40 mm	0,30 kg



Spare parts

Code	Model	Description	Min. Qty
08052012	W127B	Wheel for W127	10
08052013	W274B	Wheel for W274 - W312	10

RATCHET TUBE CUTTERS



IDEAL FOR SMALL PLACES

Code	Model	Misure
08002020	WR-TC12	From 1/8" to 1/2" (from 3 mm to 12 mm)
08002022	WR-TC22	From 1/4" to 7/8" (from 6 mm to 22 mm)
08002021	WR-TC29	From 5/16" to 1-1/8" (from 8 mm to 29 mm)

Code	Dimensions	Weight
08002020	190 x 100 x 30 mm	0,20 kg
08002022	130 x 260 x 50 mm	0,35 kg
08002021	125 x 270 x 50 mm	0,38 kg



Spare parts

Code	Model	Description
08052015	WR-TC12B	Wheel for WR-TC12
08052017	WR-TC22B	Wheel for WR-TC22
08052016	WR-TC29B	Wheel for WR-TC29

TUBE CUTTERS



TUBE CUTTERS

Ref	Code	Model	For OD tubing	Dimensions	Weight
A	08002008	TC1050	4 ÷ 16 mm	76 x 51 x 38 mm	0,08 kg
B	08002006	TC1000	4 ÷ 28 mm	127 x 57 x 38 mm	0,27 kg
C	08002005	174 F	10 ÷ 28 mm	76 x 56 x 31 mm	0,07 kg
D	08002007	312 FC	17 ÷ 41 mm	159 x 66 x 35 mm	0,32 kg
E	08002009	206 FB	10 ÷ 66 mm	213 x 96 x 41 mm	0,88 kg



Accessories

Code	Model	Description	For Model	Dimensions	Weight
08052014	TC1051	Cricchetto	TC1050	130 x 30 x 230 mm	0,05 Kg



Spare parts

Code	Model	Description	For Model	Min. Qty
08052002	75015	Wheels	TC1000-312 FC - 174 FC	10
08052003	32633	Wheels	TC1050	5
08052004	74761	Wheels	206 FB	5
08052006	74762	Screws	TC1000-312 FC - 174 FC	5
08052007	77511	Screws	206 FB	-
08052009	26883	Screws	TC1050	-
08052010	77507	Nuts	206 FB	-



REAMERS



Code	Model	Dimensions	Weight
08008006	208F	76 x 54 x 54 mm	0,20 kg



TUBE EXPANDER KIT

Kit supplied in carrying case complete with:

- Tube expander tool.
- 7 heads in mm or inch, BWE series.

Code	Model	Tube expander heads
08004014	BW-612	3/8" - 1/2" - 5/8" - 3/4" - 7/8" - 1" - 1-1/8"
08004015	BW-612MM	8 - 10 - 12 - 14 - 16 - 22 - 28 mm

TUBE EXPANDER TOOL AND CASE

Compatible with BWE and WE series heads.

Code	Model	Description
08004016	BWE-01	Tube expander tool
14029077	BWE-02	Carrying case

Code	Dimensions	Weight
08004016	390 x 110 x 50 mm	0,9 Kg
14029077	410 x 280 x 80 mm	1,15 Kg



TUBE EXPANDER HEADS

Dimensions 50 x 50 x 40 mm.

Code	Model	For OD tubing	Code	Model	For OD tubing
08005038	BWE-08	8 mm*	08005015	WE 35	35 mm
08005039	BWE-10	10 mm	08005016	WE 36	36 mm
08005040	BWE-12	12 mm	08005017	WE 40	40 mm
08005041	BWE-14	14 mm	08005018	WE 42	42 mm
08005012	WE-15	15 mm	08005050	BWE-3/8	3/8"
08005042	BWE-16	16 mm	08005051	BWE-1/2	1/2"
08005006	WE-18	18 mm	08005052	BWE-5/8	5/8"
08005007	WE-20	20 mm	08005053	BWE-3/4	3/4"
08005045	BWE-22	22 mm	08005054	BWE-7/8	7/8"
08005009	WE-24	24 mm	08005055	BWE-1	1"
08005010	WE-26	26 mm	08005056	BWE-1-1/8	1-1/8"
08005048	BWE-28	28 mm	08005057	BWE-1-3/8	1-3/8"
08005014	WE 30	30 mm	08005058	BWE-1-5/8	1-5/8"
08005013	WE 32	32 mm - 1,1/4"			

Compatible with BWE-01 and WE-01 tube expanders.

* Use only with annealed tube.



SWAGING PUNCHES



Code	Model	Description
08004002	193 S	Swaging punches serie

Code	For OD tubing	Dimensions	Weight
08004002	1/4"-3/8"-1/2"-5/8" inches	160 x 90 x 30 mm	0,4 kg



TUBE BENDERS



RATCHET TUBE BENDERS

Ref	Code	Model	For OD tubing
A	08003013	230	6 - 8 - 10 - 12 - 14 - 16 mm
B	08003014	250	10 - 12 - 14 - 16 - 18 - 22 mm
B	08003030	260	3/8" - 1/2" - 5/8" - 3/4" - 7/8"

Ref	Code	Dimensions	Weight
A	08003013	360 x 320 x 100 mm	3 kg
B	08003014	400 x 340 x 100 mm	3,7 kg
B	08003030	400 x 350 x 100 mm	3,4 kg



7 IN 1 RATCHET TUBE BENDERS

Code	Model	For OD tubing
08003082	W280	8 - 10 - 12 - 14 - 16 - 19 - 22 mm
08003081	W270	1/4" - 5/16" - 3/8" - 1/2" - 5/8" - 3/4" - 7/8"

Code	Dimensions	Weight
08003082	370 x 300 x 80 mm	3,5 kg
08003081	370 x 300 x 80 mm	3,4 kg



DOUBLE HANDLER TUBE BENDERS

Ref	Code	Model	Bend radius	For OD tubing
A	08003042	TB-364-04	14,2 mm - 9/16"	6 mm - 1/4"
A	08003037	TB-364-8 MM	17,5 mm - 11/16"	8 mm
A	08003038	TB-364-10 MM	24 mm - 15/16"	10 mm - 3/8"
A	08003044	TB-364-08	38,1 mm - 1 1/2"	12 mm - 1/2"
B	08003041	TB-364-15 MM	57 mm - 2 1/4"	15 mm
B	08003040	TB-364-16 MM	57 mm - 2 1/4"	16 mm - 5/8"
B	08003046	TB-364-12	76 mm - 3"	19 mm - 3/4"
B	08003056	TB-364-14	76 mm - 3"	22 mm - 7/8"

Ref	Code	Dimensions	Weight
A	08003042	260 x 75 x 50 mm	0,6kg
A	08003037	260 x 75 x 50 mm	0,6kg
A	08003038	400 x 130 x 90 mm	2 kg
A	08003044	400 x 130 x 90 mm	2 kg
B	08003041	730 x 130 x 80 mm	2,5 kg
B	08003040	730 x 130 x 80 mm	2,5 kg
B	08003046	820 x 130 x 90 mm	3,2 kg
B	08003056	820 x 140 x 90 mm	3,5 kg



MULTIPLE TUBE BENDERS

Code	Model	For OD tubing	Dimensions	Weight
08003084	BWTB456	1/4"-5/16"-3/8"	250 x 70 x 50 mm	0,44 kg
08003085	BWTB456M	6-8-10 mm	250 x 70 x 50 mm	0,45 kg



PRE-CALIBRATED TORQUE WRENCHES

Kit of pre-calibrated torque wrenches in plastic case:

Code	Model	Description	Dimensions	Weight
08007041	PRE-TW/KIT-06	Kit of 6 pre-calibrated wrenches (17 - 22 - 24 - 26 - 27 - 29)	380 x 290 x 60 mm	1,75 kg
08007034	PRE-TW/KIT-04	Kit of 4 pre-calibrated wrenches (17 - 22 - 26 - 29)	380 x 290 x 60 mm	0,80 kg
08007028	PRE-TW17	Single wrench 17 mm	210 x 30 x 50 mm	0,40 kg
08007029	PRE-TW22	Single wrench 22 mm	220 x 30 x 50 mm	0,40 kg
08007030	PRE-TW26	Single wrench 26 mm	250 x 30 x 50 mm	0,45 kg
08007031	PRE-TW29	Single wrench 29 mm	280 x 30 x 50 mm	0,52 kg
08007032	PRE-TW24	Single wrench 24 mm	240 x 30 x 50 mm	0,42 kg
08007033	PRE-TW27	Single wrench 27 mm	280 x 30 x 50 mm	0,53 kg



SMALL DIMENSIONS
FOR AN EASY USE



6 wrenches in a practical plastic case in the following sizes:

Chiave	Dimensions	Tightening torque Nm	Length	Refrigerant
17	1/4	18	220 mm	R22-R407C-R410A-R32
22	3/8	42	265 mm	R22-R407C-R410A-R32
26	1/2	55	270 mm	R410A-R32
29	5/8	65	335 mm	R410A-R32
24	1/2"	55	250 mm	R22-R407C
27	5/8"	65	280 mm	R22-R407C

TORQUE WRENCHES KIT

Complete set of torque wrenches with adjustable tightening torque in a carrying plastic case.

It is possible to modify the torque value with spaces of 1 Nm. Working range 0 ÷ 75 Nm.

Code	Model	Description
08007025	TW/KIT-04	Set completo chiavi 17 - 22 - 24 - 26 - 27 - 29

Code	Dimensions	Weight
08007025	380 x 290 x 60 mm	1,75 kg



UNIVERSAL OIL FOR FLARES

Universal oil essential for the flare lubrication, during flaring operation and before clamping with torque wrenches.

Code	Model	Min. Qty	Capacity	Dimensions	Weight
12002015	FO-200	12	200 ml	170 x 50 x 50 mm	0,2 kg



TORQUE WRENCHES



DTW-32/85

Digital adjustable torque wrenches

Large back-light display shows the target torque and real time reading.

- 2-colour led light, buzzer and vibration provide visual and audible indicator when target torque is reached.
- High accuracy of 2%.
- Available measurement units: Nm - lbf.in - lbf.ft - kgf.m.
- Possibility to store up to 5 torque settings.
- Easily calibration.



Code	Model	Dimensions	Weight
08007040	DTW32/85	460 x 90 x 70 mm	1,4 kg

TECHNICAL FEATURES

Working range	8 ÷ 85 Nm
	71 ÷ 1195 lbf.in
	6 ÷ 63 lbf.ft
	1 ÷ 8 kgf.m
Accuracy	± 2% (C.W./C.C.W. of reading, from 10% to 100% of full scale)
Resolution	0.1 Nm / 1 lbf.in / 0.1 lbf.ft / 0.1 kgf.m
Open end size	10 ÷ 32 mm
Power supply	3V (2 x AAA batterie)
Operating temperature	0 ÷ 40°C
Storage temperature	-20 ÷ 45°C
Wrench length	390 mm



Calibration

Code	Description
09053035	Calibration report for wrench



PTC1

Capillary tube cutter

Handy tube cutter for the exact cut of capillary tubes of all dimensions, without altering the tube internal diameter.

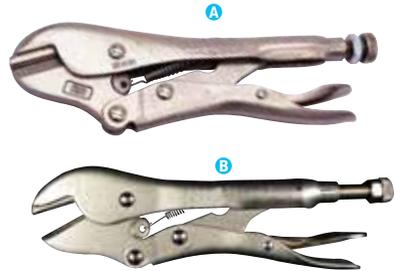


Code	Model	Dimensions	Weight
08006003	PTC1	150 x 70 x 20 mm	0,08 kg

RR - POP-201

Pinch-off plier

Sturdy pinch-off plier which, thanks to its particular jaws, allows to deform and close copper tubes.



Ref	Code	Model	For OD tubing
A	08006001	RR	1/8" - 3/8"
B	08006012	POP-201	1/8" - 3/8"

Ref	Code	Dimensions	Weight
A	08006001	250 x 80 x 20 mm	0,36 kg
B	08006012	190 x 60 x 20 mm	0,35 kg

PA11-PA6

Fin comb

Tool suitable for the cleaning and aligning of fins of any type of radiators.



Ref	Code	Model	Dimensions	Weight
A	08008051	PA11	280 x 100 x 40 mm	0,14 kg
B	08008007	PA6	130 x 160 x 40 mm	0,10 kg

CAPILLARY TOOLS

Small gauge tools for the measurement of capillary tubes inside diameter.

Ref	Code	Model	For OD tubing	Dimensions	Weight
A	08008008	C4751/015	0,45 ÷ 1,5 mm	120 x 75 x 30 mm	0,03 kg
B	08008009	C4751/030	1,5 mm ÷ 3 mm	120 x 75 x 30 mm	0,03 kg



WRENCHES



RATCHET WRENCHES

Ref	Code	Model	Description	Dimensions	Weight
A	08007005	R6725MK	Complete set	240 x 130 x 50 mm	1,3 kg



Spare parts

Ref	Code	Model	Description	Square opening	Dimensions	Weight
B	08007042	R6950	Ratchet wrench	1/4"-5/16" 8,5-9,5-13 mm	170 x 60 x 30 mm	0,75 kg



Ratchet measures
1/4"-5/16"



Fixed key measures
8.5-9.5-13 mm



RATCHET WRENCHES

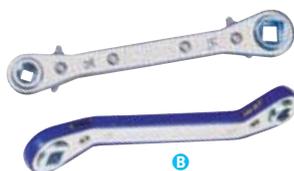
Ref	Code	Model	Square opening	Hexagonal opening	Dimensions	Weight
A	08007001	127 C	1/4"-3/8"-3/16"-5/16"		267 x 133 x 9 mm	0,11 kg
B	08007003	124 C	1/4"-3/16"	9/16"-1/2"	267 x 133 x 15 mm	0,20 kg
C	08007006	127 CO	1/4"-3/8"-3/16"-5/16"		267 x 133 x 23 mm	0,11 kg

A



RATCHET WRENCHES

Ref	Code	Model	Square opening	Dimensions	Weight
A	08007024	W122	1/4"-3/8"-3/16"-5/16"	190 x 70 x 20 mm	0,13 kg
B	08007039	W124	1/4"-3/8"-3/16"-5/16"	190 x 70 x 20 mm	0,12 kg



PROFESSIONAL 1/2" SQUARE RATCHET WRENCH

Code	Model	Square opening	Dimensions	Weight
08007043	W12-S	1/2"	280 x 50 x 45 mm	0,6 kg



CTV-DIGIT

Digital torque screwdriver

CTV-DIGIT torque screwdriver has been created for the tightening of the charging valves with controlled torque and digital reading on the display.

- Possibility to set the tightening torque according to the specifications supplied by the valves manufacturer.
- Suitable for standard valves and magnum valves.
- Prevents the excessive tightening and thus the valve damage.
- Small, light and handy.
- Backlight display to make operations in dark areas easier.
- Visual alarm when the pre-set tightening torque is reached.
- Complete of two heads.

Code	Model	Dimensions	Weight
08008057	CTV-DIGIT	175 x 50 x 50 mm	0,6 kg

TECHNICAL FEATURES

Torque range	0-2 Nm
Torque resolution	0.01 Nm
Torque accuracy	±1% CW/CCW of reading, 10% ± 100 % FS
Power supply	1,5 V, 1xAA alkaline



Spare parts

Code	Description
08008069	2-tip kit



CORE SCREWER TOOLS

Complete range of plastic and metal core screwer tools.

Ref	Code	Model	Dimensions	Weight
A	08008002	W32000	190 x 70 x 30 mm	0,09 kg
B	08008003	CTV 1	100 x 40 x 20 mm	0,03 kg



MAS20 - MAS24

Open-release magnet for solenoid valve

- The magnet allows to open and release non-energized solenoid valves, turning them into manual valves.
- Ideal for any operation of maintenance, such as refrigerant recovery, transfer of fluids.

Ref	Code	Model	Description
A	08007037	MAS20	Open-release magnet for Ø16 solenoid valve
B	08007038	MAS20-WIG	Kit of 8 magnets for Ø16 solenoid valves
A	08007044	MAS24	Open-release magnet for Ø18 solenoid valves
B	08007045	MAS24-WIG	Kit of 8 magnets for Ø18 solenoid valves

Ref	Code	Dimensions	Weight
A	08007037	50 x 50 x 40 mm	0,12 kg
B	08007038	130 x 230 x 80 mm	1 kg
A	08007044	50 x 50 x 40 mm	0,12 kg
B	08007045	130 x 230 x 80 mm	1 kg



LOCK-VALVE - ACCESS VALVE

MINIMUM LEAKAGE. REDUCES RELEASE OF REFRIGERANT INTO THE ATMOSPHERE



LOCK-VALVE

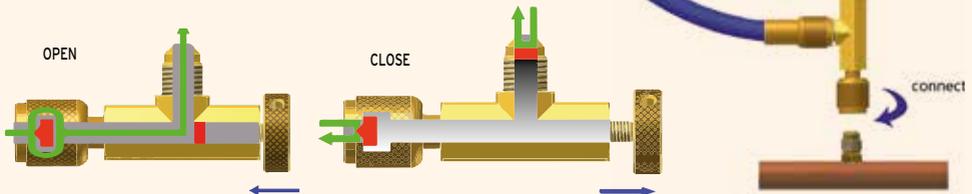
Access valves

- Very efficient tightness that guarantees no gas leaks.
- Extremely reduced volumes that prevent gas leaks during the valve connecting or disconnecting phase.
- Very easy to handle.
- Allow to regulate the refrigerant flow.
- Prevent the burning risks to fingers when disconnecting.
- Constructive precision that guarantees 100% compatibility with the systems on the market.
- PTFE seal compatible with CFC, HCFC, HFC and HFO.
- Maximum operating pressure 52 bar.
- Dimensions: 140x100x20 mm.
- Weight: 0,10 kg

Ref	Code	Model	Description
A	05059049001	LOCK-VALVE 1/4"	1/4" SAE F x 1/4" SAE M
B	05059050001	LOCK-VALVE 5/16"	5/16" SAE F x 5/16" SAE M
	05059053001	LOCK-VALVE/5-4	5/16" SAE F x 1/4" SAE M
	05059063001	LOCK-VALVE/4-5	1/4" SAE F x 5/16" SAE M
	05059076001	LOCK-VALVE/AS-4	1/2 16" AS F x 1/4" M
	05059077001	LOCK-VALVE/AS-5	1/2 16" AS F x 5/16" M



Connecting scheme



Spare parts and accessories



Ref	Code	Model	Description
A	14020097	G-LV/T-WIG	Kit 5pcs gaskets for LOCK-VALVE and EW3900/EW4900
	14020122	OR-LV-WIG	Kit 10 OR for LOCK-VALVE
B	08008059	LOCK-VALVE-CARE	Gasket easy replacement tool
C	08008065	LOCK-VALVE-CARE-WIG	Counter display with 10 pcs LOCK-VALVE-CARE

LOCK-VALVE-CARE

Simple gaskets replacement tool

LOCK-VALVE-CARE allows easy removal of worn gaskets and replacement with new one in Lock Valve, EW3900/4900 and HD/GY tubes.

The hooked tip allows the easy removal of the worn gasket while the cap on the back is specifically sized to facilitate the insertion of the new gasket.

The cap is also equipped with a specific groove to position the depressor inside HD/GY hoses.

LOCK-VALVE-CARE is equipped with an internal compartment to store the tip and any spare gaskets.

The solution is available in a single blister or in counter display containing 10 pcs.



Ref	Code	Model	Description
A	08008059	LOCK VALVE CARE	Gasket replacement tool for LOCK VALVES, EW and hoses
B	08008065	LOCK-VALVE-CARE-WIG	Counter display with 10 pcs of LOCK-VALVE-CARE

Ref	Code	Dimensions	Weight
A	08008059	220 x 60 x 18 mm	0,04 kg
B	08008065	235 x 145 x 65 mm	0,51 kg



Removal of gasket



Inserting new gasket



Spare parts and accessories



Ref	Code	Model	Description
A	14020097	G-LV/T-WIG	Kit 5pcs gaskets for LOCK-VALVE and EW3900/4900
B	14020014001	G19020	Kit 10 pcs gaskets for hoses 1/4" SAE, 1/2"-16ACME-NBR
C	14020071001	G19020/T	Kit 10 pcs gaskets for hoses 1/4" SAE, 1/2"-16ACME - PTFE
	14020048001	G19516	Kit 10 pcs gaskets for hoses 5/16"SAE
D	14020015001	G19030	Kit of 10 pcs gaskets for hoses 3/8"SAE
E	14023001001	D19302	Kit of 10 pcs valve openers for hoses

CORE SCREWER TOOLS

EW3900

Core screwer tool

Easy and efficient system that enables to remove and replace valve cores without dispersing one gramme of refrigerant. It also enables to recharge the A/C system faster by removing the valve core and reinserting it again once charging is over.



Code	Model	Swivel female connections
08008023002	EW 3900	1/4" SAE
08008023003	EW 3900/5	a5/16" SAE

Code	Male connections	Dimensions	Weight
08008023002	1/4" SAE	100 x 175 x 30 mm	0,10 kg
08008023003	1/4"SAE	100 x 175 x 30 mm	0,10 kg



Functioning diagrams: how to remove and replace valve cores without dispersing one gramme of refrigerant



A



B



C

Core removal access solution with dual connections

EW4900 enables to remove the valve core, and then open the way to its two integrated SAE M 3/8" and 1/4" connections equipped with valves.

3/8" port designed for coupling with the IperVAC hose (see pag 48) and 1/4" port for vacuum digital gauge, charging hose or manifold.



Code	Model	Description
08008060002	EW 4900	1/4" core removal solution with double connections
08008060003	EW 4900/5	5/16" core removal solution with double connections

Code	Swivel female connections	Male connections	Dimensions	Weight
08008060002	1/4" SAE	3/8" SAE + 1/4" SAE	100 x 175 x 30 mm	0,25 kg
08008060003	5/16" SAE	3/8" SAE + 1/4"SAE	100 x 175 x 30 mm	0,25 kg



Application



Mechanism Removal

A



Vacuum

Vacuum pump

B



Charge

C



Spare parts and accessories

Code	Model	Description
06141002	IVPSS/6-6/60	IperVac+ 1500 mm hose 3/8" connection
06141001	IVPSS/6-6/36	IperVac+ 900 mm hose 3/8" connection
14020097	G-LV/T-WIG	Kit 5 pcs gaskets for LOCK-VALVE - EW3900/EW4900
08008059	LOCK VALVE CARE	Gasket replacement tool for LOCK-VALVE, EW and hoses
05108043001	M1/4"-R134A/V-RK	Kit 10 pcs internal cores for HFC (R134a-R410A, R32,...)
05055099	W404/5	1/4" SAE F x 5/16" SAE M adapter

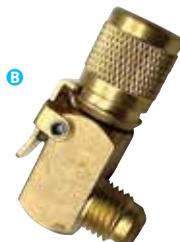
QUICK COUPLERS

- Allow to open or close automatically the system without loss of refrigerant.
- Eliminate hazardous discharge of refrigerant and oil from the system when disconnecting the hose.
- Prevent finger burn when disconnecting.



Ref	Code	Model	Description
A	05059071	W-16 C	1/4" SAE M x 1/4" SAE F
A	05059073	W-26 C	5/16" SAE M x 5/16" SAE F
B	05059072	W-17 C	1/4" SAE M 1/4" SAE F
B	05059074	W-27 C	5/16" SAE M 5/16" SAE F

Ref	Code	Dimensions	Weight
A	05059071	165 x 135 x 20 mm	0,07 kg
A	05059073	165 x 135 x 20 mm	0,07 kg
B	05059072	165 x 135 x 20 mm	0,07 kg
B	05059074	165 x 135 x 20 mm	0,07 kg



Spare parts

Code	Model	Description	For	Per
14020126	OR-WC-WIG	Kit 10 OR	W16C-W17C-W26C-W27C	10
14020127	G-WC-WIG	Kit 10 guarnizioni	W16C-W17C-W26C-W27C	10

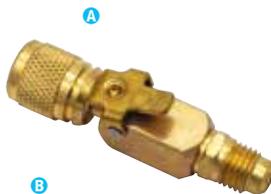
QUICK COUPLERS

- Allow to open or close automatically the system without loss of refrigerant.
- Eliminate hazardous discharge of refrigerant and oil from system when disconnecting hose.
- Prevent finger burn when disconnecting.



Ref	Code	Model	Description
A	05059005	16 C	1/4" SAE M x 1/4" SAE F
A	05059038	26 C	5/16" SAE M x 5/16" SAE F
B	05059007	17 C	1/4" SAE M 1/4" SAE F
B	05059039	27 C	5/16" SAE M 5/16" SAE F

Ref	Code	Dimensions	Weight
A	05059005	165 x 135 x 20 mm	0,07 kg
A	05059038	165 x 135 x 20 mm	0,07 kg
B	05059007	165 x 135 x 20 mm	0,07 kg
A	05059039	165 x 135 x 20 mm	0,07 kg



Spare parts

Code	Model	Description	Per	Per
14020047	S8920073	Female coupler-gasket kit	16C-17C-26C-27C	10
14020022	S8920077	Female coupler-o-ring	16C-17C-26C-27C	10

QUICK COUPLERS



CLICK-LOCK

Universal system of identification and protection

Protect your craftsmanship.

Reduce questionable warranty returns.

Defend your reputation and provide your customer with a permanent system protection. Safeguard your equipment from being contaminated by impure refrigerant

Code	Model	Description	Confezione
05049025	CLSR100	Fo connectionsi 1/4"-3/8"-1/2" ..	25 pcs
05049034	CLSC100	Fo connections 5/16"	25 pcs

Code	Dimensions	Weight
05049025	240 x 200 x 60 mm	0,30 kg
05049034	240 x 200 x 60 mm	0,30 kg



How to fit the CLICK-LOCK? As easy as 1-2-3!



EASY-JOINT

Self-flaring connections for split systems

EASY-JOINT replaces flares very quickly, safely and cheaply.

No further connection or soldering is necessary.

The operator must only prepare the copper tube (cut and deburred) and place the nose at its end after having inserted the nut.

- No calibrator is required for copper tube thickness from 0,8 to 1 mm.
- For all types of refrigerants (included R410A).
- Easy and quick installation.
- Perfect for small spaces.
- Low cost.
- Safe.

Code	Model	Description	
05108075001	EASY-JOINT1/4"	Self-flaring connections kit 1/4"	4
05108076001	EASY-JOINT 3/8"	Self-flaring connections kit 3/8"	4
05108077001	EASY-JOINT 1/2"	Self-flaring connections kit 1/2"	4

Code	Dimensions	Weight
05108075001	140 x 100 x 30 mm	0,15 kg
05108076001	140 x 100 x 30 mm	0,15 kg
05108077001	140 x 100 x 30 mm	0,15 kg



INLINE JOINTS

Self-flaring straight connections

- Replaces flares very quickly, safely and cheaply.
- For all types of refrigerants (included R410A).
- Easy and quick installation.
- Perfect for small spaces.

Code	Model	Description
05108083001	INLINE-JOINT-1/4"	1/4"- 1/4" complete with 2 nuts
05108084001	INLINE-JOINT-3/8"	3/8"- 3/8" complete with 2 nuts
05108085001	INLINE-JOINT-1/2"	1/2" - 1/2" complete with 2 nuts

Code	Dimensions	Weight
05108083001	140 x 100 x 30 mm	0,10 kg
05108084001	140 x 100 x 30 mm	0,10 kg
05108085001	140 x 100 x 30 mm	0,10 kg



INVERSING FITTINGS

Ref	Code	Model	Description
A	05108080	INV-4/6	1 pcs. 1/4" x 1/4" + 1 pcs. 3/8" x 3/8"
B	05108081	INV-4/8	1 pcs. 1/4" x 1/4" + 1 pcs. 1/2" x 1/2"
	05108168	INV-4/4	2 pcs. 1/4" x 1/4"
	05108169	INV-6/6	2 pcs. 3/8" x 3/8"
	05108170	INV-8/8	2 pcs. 1/2" x 1/2"



SELF-LOCKING COUPLINGS



IPER-LINK

Self-locking couplings

Wigam's IPER-LINK is the family of SELF-BLOCKING BRASS HERMETIC COUPLINGS for an easy and quick connection of refrigeration hoses that make the operation EASY, QUICK and LOW COST.

Thanks to the IPER-LINK **A** couplings, refrigerant hoses can be **hermetically connected** WITHOUT BRAZING and WITHOUT SPECIAL TOOLS or SEALANTS (Fig. 1).

Thanks to the IPER-LINK **B** fittings especially threaded on one side, it is also possible to make the connection to the **condensing and evaporating units** WITHOUT FLANGING (Fig. 2)

Suitable for refrigerants with a working pressure up to 52bar, they have passed the leakage test, the vacuum test and the high pressure test according to the limit values of the EN14903.

The accurate Italian manufacture of IPER-LINK couplings, with especially engineered mechanical seals and gaskets, is synonymous with superior quality (MADE IN ITALY).

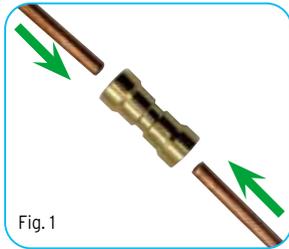


Fig. 1



Fig. 2



BENEFITS

- ✓ HERMETIC CONNECTIONS WITHOUT BRAZING OR SPECIAL TOOLS
- ✓ CONNECTIONS TO THE UNITS WITHOUT FLANGING
- ✓ FOR ALL REFRIGERANTS UP TO 52 BAR
- ✓ SIMPLE, QUICK AND LOW-COST
- ✓ SMALL DIMENSIONS
- ✓ QUALITY MADE IN ITALY

TECHNICAL FEATURES

Refrigerants	CFC-HCFC-HFC-HFO-HC
Max.working pressure	5,2 MPa (52 bar)
Min. pressure	0.01mbar (7.5mTorr)
Operating temperature	-45 ÷ +130°C
Tightness system	Double-tight



Illustrative indications of the coupling installation



Cutting the hose



Inner and outer cleaning of the hose with an inner/outer reamer



Insertion of the hose on the IPER-LINK

For complete instructions, see the user's manual

IPER-LINK - LINEAR HOSE TO HOSE COUPLINGS

Code	Model	Description	ØA	ØB	L (mm)	Kit	
05068001	IPER-LINK/S/4-4	Kit 2 linear couplings 1/4"x1/4"	1/4"	1/4"	39		20 x
05068002	IPER-LINK/S/6-6	Kit 2 linear couplings 3/8"x3/8"	3/8"	3/8"	48		10 x
05068003	IPER-LINK/S/8-8	Kit 2 linear couplings 1/2"x1/2"	1/2"	1/2"	50		10 x
05068012	IPER-LINK/S/10-10	Kit 2 linear couplings 5/8"x5/8"	5/8"	5/8"	50,4		10 x



IPER-LINK - LINEAR HOSE TO HOSE REDUCED COUPLINGS

Code	Model	Description	ØA	ØB	L (mm)	Kit	
05068004	IPER-LINK/S/4-6	Kit 2 reduced linear couplings 1/4"x3/8"	1/4"	3/8"	44		20 x
05068005	IPER-LINK/S/6-8	Kit 2 reduced linear couplings 3/8"x1/2"	3/8"	1/2"	50		10 x



IPER-LINK - HOSE TO HOSE 90° COUPLINGS

Code	Model	Description	ØA	ØB	L (mm)	Kit	
05068006	IPER-LINK/L/4-4	Kit 2 couplings 90° 1/4"x1/4"	1/4"	1/4"	22x22		10 x
05068007	IPER-LINK/L/6-6	Kit 2 couplings 90° 3/8"x3/8"	3/8"	3/8"	29x29		10 x
05068008	IPER-LINK/L/8-8	Kit 2 couplings 90° 1/2"x1/2"	1/2"	1/2"	32x32		10 x



IPER-LINK - HOSE TO UNIT FITTINGS

Code	Model	Description	ØA	ØB	L (mm)	Kit	
05068009	IPER-LINK/S/4-4F	Kit 2 couplings 1/4"x1/4"SAE	1/4"	1/4"SAE	34		10 x
05068010	IPER-LINK/S/6-6F	Kit 2 couplings 3/8"x3/8"SAE	3/8"	3/8"SAE	41		10 x
05068011	IPER-LINK/S/8-8F	Kit 2 couplings 1/2"x1/2"SAE	1/2"	1/2"SAE	44		10 x
05068013	IPER-LINK/S/10-10F	Kit 2 linear couplings 5/8"x5/8"	5/8"	5/8 SAE	49,5		10 x



Spare parts and accessories

Code	Model	Description	Min. Qty
14020035	B2-4	Conical copper gasket 1/4"	100 pc.
14020036	B2-6	Conical copper gasket 3/8"	100 pc.
14020044	B2-8	Conical copper gasket 1/2"	100 pc.
14020045	B2-10	Conical copper gasket 5/8"	100 pc.



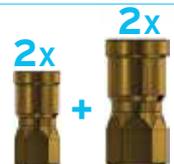
IPER-LINK - LINEAR EXTENSION KIT

Code	Model	Description	Kit	
05068022	K-IPER-LINK-JOINT/4-6	Linear extension kit 1 pc. 1/4"x1/4" + 1 pcs. 3/8"x3/8"		10 x
05068023	K-IPER-LINK-JOINT/4-8	Linear extension kit 1 pc. 1/4"x1/4" + 1 pcs. 1/2"x1/2"		10 x



IPER-LINK- SPLIT INSTALLATION KIT

Code	Model	Description	Kit	
05068020	K-IPER-LINK-SPLIT/4-6	Split installation kit 2 pcs. 1/4"x1/4"SAE + 2 pcs. 3/8"x3/8"SAE		5 x
05068021	K-IPER-LINK-SPLIT/4-8	Split installation kit 2 pcs. 1/4"x1/4"SAE + 2 pcs. 1/2"x1/2"SAE		5 x



Conical brass gaskets included.

QUICK CONNECTORS, COUPLINGS, PIERCING PLIERS

QUICK CONNECTORS



Ref	Code	Model	Description	Connections	Dimensions	Weight
A	05105008001	GF6-1/4"NPT	Quick connector	1/4"NPT 6 mm	140 x 100 x 20 mm	0,20 kg
B	05105009001	GF8-1/4"NPT	Quick connector	1/4"NPT 8 mm	140 x 100 x 20 mm	0,20 kg
	14020017	G6	Gasket Ø 6		140 x 100 x 20 mm	0,20 kg
	14020018	G8	Gasket Ø 8		140 x 100 x 20 mm	0,20 kg

1/4" NPT QUICK COUPLINGS



Ref	Code	Model	Connections	Dimensions	Weight
A	05108046001	WF 16	1/4"NPT	140 x 100 x 20 mm	0,15 kg
B	05108045001	WM 16	1/4"NPT	140 x 100 x 20 mm	0,15 kg

3/8" NPT QUICK COUPLINGS



Ref	Code	Model	Connections	Dimensions	Weight
A	05108056001	WF 21	3/8"NPT	140 x 100 x 30 mm	0,15 kg
B	05108055001	WM 21	3/8"NPT	140 x 100 x 30 mm	0,15 kg

TUBE PIERCING VALVES



Ref	Code	Model	Connections	Ø tubing mm	Min. Qty	Dimensions	Weight
A	05004003	BPV 31	1/4"SAE	6,3-7,9-9,5	12	150 x 100 x 65 mm	1,2 kg
A	05004002	BPV 21	1/4"SAE	12,7-15,8	8	135 x 85 x 80 mm	1,0 kg
B	05004005	WPV 31	1/4"SAE	6,3 - 7,9 - 9,5 - 10	12	150 x 100 x 65 mm	0,7 kg
C	05004004	W341	1/4"SAE	4,8 ÷ 9,6	-	70 x 30 x 30 mm	0,10 kg

PIERCING PLIER

The piercing plier allows to have an immediate piercing of the refrigeration system charging hose. As soon as the hose has been perforated, it is possible to perform the vacuum and the refrigerant recharge in the system. Necessary for HC systems (hydrocarbons) and flammables.

Ref	Code	Model	Connections	Ø tubing mm	Dimensions	Weight
A	08006007	PT-109	1/4"SAE	1/4"-1/2" (6-12 mm)	340 x 120 x 30 mm	0,70kg
B	08006011	PP-343	1/4"SAE	6 mm	240 x 75 x 25 mm	0,43 kg



121RG SERIES WITH DEPRESSOR

Code	Model	Female swivel connections	Male connect	Dimensions	Weight
		A	B		
05001003001	121RG4	1/4" SAE	1/4" SAE	140 x 100 x 20 mm	0,10 kg *
05002003001	BVR-4	7/16" SAE	1/4" SAE	140 x 100 x 20 mm	0,10 kg
05001033001	121RG5-4	5/16" SAE	1/4" SAE	140 x 100 x 20 mm	0,10 kg
05001011001	121RG6-4	3/8" SAE	1/4" SAE	140 x 100 x 20 mm	0,10 kg
05001010001	121RG4-4	1/2" -16 ACME	1/4" SAE	140 x 100 x 20 mm	0,10 kg
05001038001	121RG5 (BVR-5)	5/16" SAE	5/16" SAE	140 x 100 x 20 mm	0,10 kg
05001031001	121RG4-5	1/4" SAE	5/16" SAE	140 x 100 x 20 mm	0,10 kg
05002034001	121RG4-5	1/2" -16 ACME	5/16" SAE	140 x 100 x 20 mm	0,10 kg
05001004001	121RG6	3/8" SAE	3/8" SAE	140 x 100 x 20 mm	0,10 kg
05001007001	121RG4-6	1/4" SAE	3/8" SAE	140 x 100 x 20 mm	0,10 kg
05001041001	121RG5-6	5/16" SAE	3/8" SAE	140 x 100 x 20 mm	0,10 kg
05001009001	121RG4-6	1/2" -16 ACME	3/8" SAE	140 x 100 x 20 mm	0,10 kg
05001008001	121RG4	1/2" -16 ACME	1/2" -16 ACME	140 x 100 x 20 mm	0,10 kg
05001020001	121RG4-A	1/4" SAE	1/2" -16 ACME	140 x 100 x 20 mm	0,10 kg
05001005001	121RG6-A	3/8" SAE	1/2" -16 ACME	140 x 100 x 30 mm	0,10 kg



Available in following colors



(*) With 3 plates.



Spare parts

Rif	Code	Model	Description
A	14022191001	K-PLATE/B	Kit 10 pcs blue colored plates
B	14022191002	K-PLATE/R	Kit 10 pcs red colored plates
C	14022191003	K-PLATE/Y	Kit 10 pcs yellow colored plates

SERIE RG CON DEPRESSORE

Code	Model	Female swivel connections	Male connect	Dimensions	Weight
05059002001	RG180	1/4" SAE	1/4" SAE	140 x 100 x 20 mm	0,10 kg
05059022001	RG180/4-5	1/4" SAE	5/16" SAE	140 x 100 x 20 mm	0,10 kg
05059023001	RG180/5-4	5/16" SAE	1/4" SAE	140 x 100 x 20 mm	0,10 kg
05059009001	RG183	3/16" SAE	1/4" SAE	140 x 100 x 20 mm	0,10 kg



Code	Model	Female swivel connections	Female connect	Dimensions	Weight
		A	B		
05059001001	RG180F	1/4" SAE	1/4" SAE	140 x 100 x 20 mm	0,04 kg



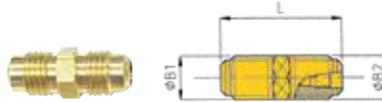
Code	Model	Description	Dimensions	Weight
05059003001	RG090	Adapter 90°, 1/4" SAE M x 1/4" SAEW swivel connection F	140 x 100 x 20 mm	0,04 kg
05059024001	RG090/5-4	Adapter 90°, 1/4" SAE M x 5/16" SAEW swivel connection F	140 x 100 x 20 mm	0,10 kg
05059010001	RG093	Adapter 90°, 1/4" SAE M x 3/16" SAEW swivel connection F	140 x 100 x 20 mm	0,10 kg



STRAIGHT FITTINGS

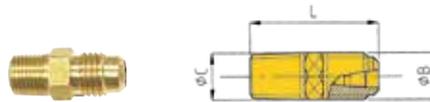
SAE FLARE UNIONS

Code	Model	Description	exag.	L mm	ØB1	ØB2	Weight	Min. Qty
05102003	3BA	Valve body	11	35	1/4"	1/4"C	22 g	500
05102030	512 3BA	Valve complete with core and cap	11	35	1/4"	1/4"C	22 g	500
05108026001	512 3BAK	Kit of 10 pcs. Valve complete with core and cap	11	35	1/4"	1/4"C	220 g	10



SAE FLARE X NPT UNIONS

Code	Model	Description	exag.	L mm	ØB	ØC	Weight	Min. Qty
05102004	2BA	Valve body	11	27	1/4"C	1/8"	20 g	500
05102029	512 2BA	Valve complete with core and cap	11	27	1/4"C	1/8"	20 g	500
05108025001	512 2BAK	Kit of 10 pcs. Valve complete with core and cap	11	27	1/4"C	1/8"	200 g	10
05102075	24F5BA	Valve body	14	27	5/16"C	1/8"	20 g	500
05108108001	512 24F5BAK	Kit of 10 pcs. Valve complete with core and cap	14	27	5/16"C	1/8"	200 g	10



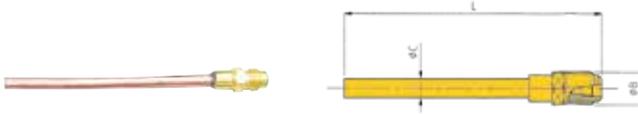
SAE FLARE X O.D.S. UNIONS

Ref	Code	Model	Description	exag.	L mm	ØB	ØC-ØD-ØE mm	Weight	Min. Qty
A	05102001	1BA/6,2	Valve body	11	26	1/4"C	6,2	12 g	500
A	05102002	1BA/6,4	Valve body	11	26	1/4"C	6,4 1/4"	12 g	500
B	05102005	4BA	Valve body	11	29	1/4"C	6,2-8-10	12 g	500
B	05102070	5BA	Valve body	14	30,5	5/16"C	6,2-8-10	13 g	500
A	05102028	512 1BA/6,2	Valve complete with core and cap	11	26	1/4"C	6,2	12 g	500
A	05108023001	512 1BA/6,2K	Kit of 10 pcs. Valve complete with core and cap	11	26	1/4"C	6,2	120 g	10
A	05102033	512 1BA/6,4	Valve complete with core and cap	11	26	1/4"C	6,4 1/4"	12 g	500
A	05108024001	512 1BA/6,4K	Kit of 10 pcs. Valve complete with core and cap	11	26	1/4"C	6,4 1/4"	120 g	10
B	05102031	512 4BA	Valve complete with core and cap	11	29	1/4"C	6,2-8-10	13 g	500
B	05108027001	512 4BAK	Kit of 10 pcs. Valve complete with core and cap	11	29	1/4"C	6,2-8-10	130 g	10
B	05102071	512 5BA	Valve complete with core and cap	14	30,5	5/16"C	6,2-8-10	13 g	500
B	05108089001	512 5BAK	Kit of 10 pcs. Valve complete with core and cap	14	30,5	5/16"C	6,2-8-10	130 g	10



SAE FLARE UNIONS WITH COPPER TUBE

Code	Model	Description	exag.	L mm	ØB	ØC	Weight	Min. Qty
05102079	50BA	Valve body	11	77	1/4" C	6	29 g	500
05102080	100BA	Valve body	11	126	1/4" C	6	29 g	500
05102025	512/50	Valve complete with core and cap	11	77	1/4" C	6	29 g	500
05108028001	512/50K	Kit of 10 pcs. Valve complete with core and cap	11	77	1/4" C	6	290 g	10
05102023	512/100	Valve complete with core and cap	11	126	1/4" C	6	29 g	500
05108029001	512/100K	Kit of 10 pcs. Valve complete with core and cap	11	126	1/4" C	6	290 g	10



INTERNAL CORE

Code	Model	Description	Min. Qty
14023003	M1/4"-R22/B	Internal core for R22	500
05108040001	M1/4"-R22/BK	Kit 10 pcs. Internal core for R22	10
14023002	M1/4"-R134A/V-R	Internal core for HFC (R134a-R410A, R32...)	500
05108043001	M1/4"-R134A/V-RK	Kit 10 pcs. Internal core for HFC (R134a-R410A, R32...)	10
14023023	M1/4"-R290/V	Internal core for HC R290 R600 1/4"	500
0510810001	M1/4"-R290/VK-WIG	Kit 10 pcs. Internal core for HC R290 R600 1/4"	10



CAPS

Ref	Code	Model	Description	Min. Qty
A	05063001	CP1/4"	1/4" flare cap with gasket	500
	05108044001	CP1/4"K	Kit 10 pcs. Caps with gasket	10
A	05063042	CP5/16"	5/16" flare cap with gasket	100
	05108105001	CP5/16"K	Kit 10 pcs caps with gasket	10
B	05063053	CP1/4"-CTV	1/4" flare cap with gasket with wrench	50



COPPER BONNETS FOR SAE FLARE CONNECTIONS

Code	Model	Flare	Weight gr x 100 pcs	Min. Qty
05063024	B1-4	1/4"	41	100
05063025	B1-5	5/16"	56	100
05063026	B1-6	3/8"	91	100
05063027	B1-8	1/2"	140	100
05063028	B1-10	5/8"	186	100
05063029	B1-12	3/4"	443	100



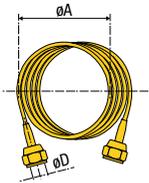
TEES

The "C" after 1/4" indicates that the connection is suitable to fit the access valve.
The "N" after 1/4" indicates the presence of the nut.

CONICAL COPPER GASKETS FOR SAE FLARE CONNECTIONS



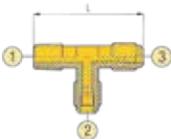
Code	Model	Flare	Weight g x 100 pcs	Min. Qty
14020035	B2-4	1/4"	27	100
14020043	B2-5	5/16"	30	100
14020036	B2-6	3/8"	50	100
14020044	B2-8	1/2"	66	100
14020045	B2-10	5/8"	85	100
14020046	B2-12	3/4"	182	100



SAE FLARE CAPILLARY ADAPTORS WITHOUT DEPRESSOR

Code	Model	ØA mm	ØD mm	L mm	Weight
06052001	87A	60	1/4"	1000	85 g
06052002	87B	60	1/4"	500	65 g

TEES



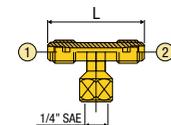
Code	Model	L mm	1 NTP	2 flare	3 flare	Weight	Min. Qty
05059008	889/02	45	1/8"	1/4"C	1/4"C	25 g	100
05108112001	889/02K	45	1/8"	1/4"C	1/4"C	250 g	10



Code	Model	L mm	1 flare	2 flare	3 flare	Weight	Min. Qty
05057061	890/02	45	1/4"C	1/4"C	1/4"	25 g	100
05108113001	890/02K	45	1/4"C	1/4"C	1/4"	250 g	10

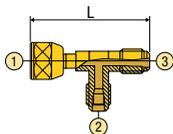


Code	Model	L mm	1 flare	2 flare	Weight	Min. Qty
05057001	892/02	40	1/4"C	1/4"C	20 g	100



Code	Model	L mm	1 flare	2 flare	Weight	Min. Qty
05057034	T6-4C/01	46	1/4"C	1/4"C	37 g	100
05108114001	T6-4C/01K	46	1/4"C	1/4"C	370 g	10

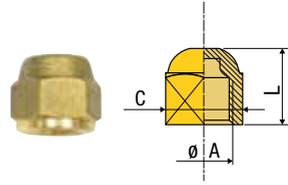
TEES WITH SWIVEL NUT



Code	Model	L mm	1 flare	2 flare	3 flare	Weight	Min. Qty
05057029	891/02	52	1/4"N	1/4"C	1/4"C	47 g	100
05108115001	891/02K	52	1/4"N	1/4"C	1/4"C	470 g	10

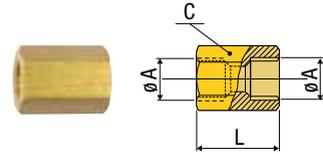
SAE FLARE CAPS

Code	Model	ØA flare	C esag.	L mm	Weight	Min. Qty
05062031	N5-4	1/4"	14	14	10 g	100
05108116001	N5-4K	1/4"	14	14	100 g	10
05062060	N5-5	5/16"	19	18	22 g	100
05108117001	N5-5K	5/16"	19	18	220 g	10
05062032	N5-6	3/8"	22	18	33 g	50



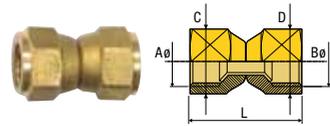
SAE FLARE COUPLING UNIONS

Code	Model	ØA flare	C esag.	L mm	Weight	Min. Qty
05053003	U4-4	1/4"	17	26	38 g	100
05108118001	U4-4K	1/4"	17	26	380 g	10
05053004	U4-5	5/16"	19	28	47 g	100
05108119001	U4-5K	5/16"	19	28	470 g	10
05053005	U4-6	3/8"	22	30	64 g	50
05108120001	U4-6K	3/8"	22	30	320 g	5
05053007	U4-10	5/8"	28	40	124 g	50
05108122001	U4-10K	5/8"	28	40	645 g	5



SAE FLARE SWIVEL NUTS UNIONS

Code	Model	ØA-B flare	C esag.	L mm	Weight	Min. Qty
05062007	US4-4	1/4"	17	30	38 g	100
05108123001	US4-4K	1/4"	17	30	380 g	10
05062036	US4-6	3/8"	22	37	65 g	50
05108124001	US4-6K	3/8"	22	37	650 g	10
05062037	US4-8	1/2"	24	41	78 g	50
05108125001	US4-8K	1/2"	24	41	780 g	10
05062038	US4-10	5/8"	27	42	91 g	25
05108126001	US4-10K	5/8"	27	42	910 g	10



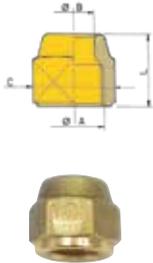
SWIVEL COUPLING

Ref	Code	Model	Connections
A	05053012001	MG4-4-WIG	1/4" SAE x 1/4" SAE
B	05053013001	MG4-6-WIG	1/4" SAE x 3/8" SAE
C	05053014001	MG6-6-WIG	3/8" SAE x 3/8" SAE

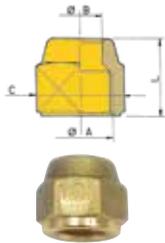


UNIONS

SAE FLARE NUTS FOR INCH TUBES



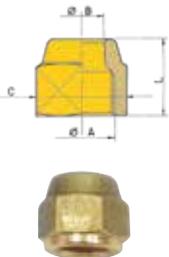
Code	Model	Description	ØA	ØB	C esag.	L mm	Weight	Min. Qty
05062008	NS4-4	Nuts for inch tubes	1/4"	1/4"	17	15	18 g	100
05108002001	NS4-4K	Kit 10 pcs. nuts for inch tubes	1/4"	1/4"	17	15	180 g	10
05062009	NS4-6	Nuts for inch tubes	3/8"	3/8"	22	18	31 g	100
05108003001	NS4-6K	Kit 10 pcs. nuts for inch tubes	3/8"	3/8"	22	18	310 g	10
05062010	NS4-8	Nuts for inch tubes	1/2"	1/2"	24	20	36 g	100
05108004001	NS4-8K	Kit 10 pcs. nuts for inch tubes	1/2"	1/2"	24	20	360 g	10
05062011	NS4-10	Nuts for inch tubes	5/8"	5/8"	28	23	43 g	50
05108005001	NS4-10K	Kit 10 pcs. nuts for inch tubes	5/8"	5/8"	28	23	430 g	10
05062013	NS4-12	Nuts for inch tubes	3/4"	3/4"	33	30	87 g	100
05108006001	NS4-12K	Kit 5 pcs. nuts for inch tubes	3/4"	3/4"	33	30	435 g	5
05062014	NS4-14	Nuts for inch tubes	7/8"	7/8"	41	36	179 g	10
05062015	NS4-16	Nuts for inch tubes	1"	1"	41	36	149 g	10



SAE FLARE REDUCED NUTS FOR INCH TUBES

Code	Model	Description	ØA flare	ØB flare	C esag.	L mm	Weight	Min. Qty
05062018	NRS4-64	Reduced nuts for inch tubes	3/8"	1/4"	22	18	31 g	100
05108127001	NRS4-64K	Reduced nuts for inch tubes	3/8"	1/4"	22	18	310 g	10
05062020	NRS4-86	Reduced nuts for inch tubes	1/2"	3/8"	24	20	37 g	100
05108128001	NRS4-86K	Reduced nuts for inch tubes	1/2"	3/8"	24	20	370 g	10
05062021	NRS4-108	Reduced nuts for inch tubes	5/8"	1/2"	27	25	47 g	100
05108129001	NRS4-108K	Reduced nuts for inch tubes	5/8"	1/2"	27	25	470 g	10

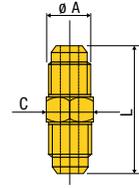
SAE FLARE NUTS FOR METRIC TUBES



Code	Model	Description	ØA flare	ØB flare	C esag.	L mm	Weight	Min. Qty
05062002	NS4-4/6	Nuts for inch tubes	1/4"	6	17	15	19 g	100
05108007001	NS4-4/6K	Kit 10 pcs. nuts for inch tubes	1/4"	6	17	15	190 g	10
05062006	NS4-6/8	Nuts for inch tubes	3/8"	8	22	18	33 g	100
05108058001	NS4-6/8K	Kit 10 pcs. nuts for inch tubes	3/8"	8	22	18	330 g	10
05062005	NS4-6/10	Nuts for inch tubes	3/8"	10	22	8	31 g	100
05108059001	NS4-6/10K	Kit 10 pcs. nuts for inch tubes	3/8"	10	22	18	310 g	10
05062001	NS4-8/10	Nuts for inch tubes	1/2"	10	24	20	38 g	100
05108008001	NS4-8/10K	Kit 10 pcs. nuts for inch tubes	1/2"	10	24	20	380 g	10
05062003	NS4-8/12	Nuts for inch tubes	1/2"	12	24	20	37 g	100
05108060001	NS4-8/12K	Kit 10 pcs. nuts for inch tubes	1/2"	12	24	20	370 g	10
05062024	NS4-10/12	Nuts for inch tubes	5/8"	12	27	23	47 g	50
05108062001	NS4-10/12K	Kit 10 pcs. nuts for inch tubes	5/8"	12	27	23	470 g	10

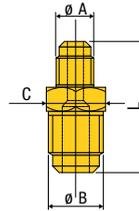
SAE FLARE UNIONS

Code	Model	Description	ØA flare	C esag.	L mm	Weight	Min. Qty
05051014	U2-4	Unions	1/4"	11	33	17 g	100
05108010001	U2-4K	Kit 10 pcs. unions	1/4"	11	33	170 g	10
05051011	U2-5	Unions	5/16"	14	36	27 g	100
05108014001	U2-5K	Kit 10 pcs. unions	5/16"	14	36	270 g	10
05051016	U2-6	Unions	3/8"	17	36	40 g	100
05108009001	U2-6K	Kit 10 pcs. unions	3/8"	17	39	400 g	10
05108011001	U2-8K	Kit 5 pcs. unions	1/2"	20	45	34 g	5
05108012001	U2-10K	Kit 5 pcs. unions	5/8"	23	50	47 g	5
05108013001	U2-12K	Kit 5 pcs. unions	3/4"	27	57	292 g	2



SAE FLARE REDUCED UNIONS

Code	Model	Description	ØA flare	ØB flare	C esag.	L mm	Weight	Min. Qty
05052020	UR2-64	Reduced unions	1/4"	3/8"	17	39	36 g	100
05108015001	UR2-64K	Kit 10 pcs. Reduced unions	1/4"	3/8"	17	39	360 g	10
05052022	UR2-84	Reduced unions	1/4"	1/2"	20	42	52 g	100
05108016001	UR2-84K	Kit 5 pcs. Reduced unions	1/4"	1/2"	20	42	260 g	5
05052021	UR2-86	Reduced unions	3/8"	1/2"	20	44	75 g	100
05108017001	UR2-86K	Kit 5 pcs. Reduced unions	3/8"	1/2"	20	44	375 g	5
05052027	UR2-104	Reduced unions	1/4"	5/8"	23	43	66 g	100
05108018001	UR2-104K	Kit 5 pcs. Reduced unions	1/4"	5/8"	23	43	330 kg	5
05052028	UR2-106	Reduced unions	3/8"	5/8"	23	45	74 g	100
05108065001	UR2-106K	Kit 5 pcs. Reduced unions	3/8"	5/8"	23	45	370 g	5
05052029	UR2-108	Reduced unions	1/2"	5/8"	23	48	80 g	100
05108019001	UR2-108K	Kit 5 pcs. Reduced unions	1/2"	5/8"	23	48	400 g	5
05052030	UR2-128	Reduced unions	1/2"	3/4"	27	52	114 g	50
05052031	UR2-1210	Reduced unions	5/8"	3/4"	27	54	132 g	50



UNIVERSAL OIL FOR FLARES

Universal oil essential for the flare lubrication, during flaring operation and before clamping with torque wrenches.

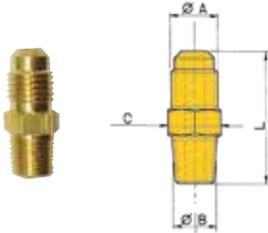


Code	Model	Min. Qty	Capacity	Dimensions	Weight
12002015	FO-200	12	200 ml	170 x 50 x 50 mm	0,2 kg



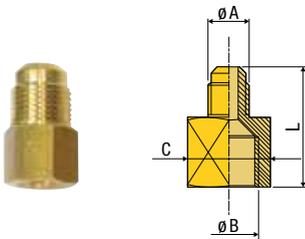
UNIONS

SAE FLARE M X NPT M UNIONS



Code	Model	ØA flare	ØB NPT	C esag.	L mm	Weight	Min. Qty
05052001	U1-4A (24F4)	1/4"	1/8"	11	31	16 g	100
05052011	U1-4B (48F4)	1/4"	1/4"	14	36	29 g	100
05052026	U1-4C	1/4"	3/8"	17	38	41 g	100
05108130001	U1-4CK	1/4"	3/8"	22	42	410 g	10
05052013	U1-6A (24F6)	3/8"	1/8"	17	36	33 g	50
05052012	U1-6B (48F6)	3/8"	1/4"	17	39	36 g	50
05052033	U1-6C	3/8"	3/8"	17	39	46 g	50
05108131001	U1-6CK	3/8"	3/8"	17	39	460 g	10
05052025	U1-6D	3/8"	1/2"	22	45	76 g	50
05052034	U1-8B	1/2"	1/4"	20	43	54 g	50
05052016	U1-8C	1/2"	3/8"	20	43	60 g	50
05052035	U1-8D	1/2"	1/2"	22	45	83 g	50
05052038	U1-10D	5/8"	1/2"	23	49	88 g	50
05052039	U1-10E	5/8"	3/4"	27	54	132 g	50
05052041	U1-12E	3/4"	3/4"	27	53	138 g	50

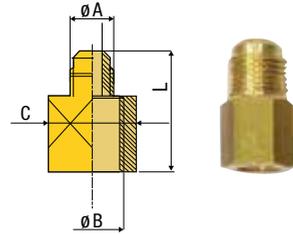
SAE FLARE M X SAE FLARE F REDUCED UNIONS



Code	Model	ØA flare	ØB flare	C esag.	L mm	Weight	Min. Qty
05055018	UR3-46	1/4"	3/8"	22	33	50 g	50
05108133001	UR3-46K	1/4"	3/8"	22	33	500 g	10
05055024	UR3-48	1/4"	1/2"	25	37	73 g	50
05108134001	UR3-48K	1/4"	1/2"	25	37	730 g	10
05055017	UR3-64	3/8"	1/4"	17	33	40 g	50
05108132001	UR3-64K	3/8"	1/4"	17	33	400 g	10
05055025	UR3-68	3/8"	1/2"	25	38	73 g	50
05108135001	UR3-68K	3/8"	1/2"	25	38	365 g	5
05055026	UR3-84	1/2"	1/4"	20	35	58 g	50
05108136001	UR3-84K	1/2"	1/4"	20	35	290 g	5
05055027	UR3-86	1/2"	3/8"	22	35	60 g	50
05108137001	UR3-86K	1/2"	3/8"	22	35	300 g	5
05055028	UR3-810	1/2"	5/8"	27	43	97 g	50
05108138001	UR3-810K	1/2"	5/8"	27	43	485 g	5
05055029	UR3-108	5/8"	1/2"	25	43	83 g	50
05108139001	UR3-108K	5/8"	1/2"	25	43	415 g	5
05055030	UR3-1012	5/8"	3/4"	32	45	129 g	40
05055031	UR3-1210	3/4"	5/8"	27	41	102 g	40

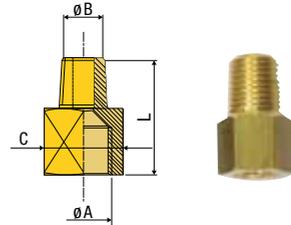
REDUCED UNIONS SAE FLARE M X NPT F

Code	Model	ØA flare	ØB NPT	C esag.	L mm	Weight	Min. Qty
05055008	46F	1/4"	1/8"	14	28	20 g	100
05108140001	46F/K	1/4"	1/8"	14	28	200 g	10
05055019	U3-4B	1/4"	1/4"	19	33	41 g	100
05108141001	U3-4BK	1/4"	1/4"	19	33	410 g	10
05055033	U3-4C	1/4"	3/8"	22	36	55 g	100
05108142001	U3-4CK	1/4"	3/8"	22	36	550 g	10
05055035	U3-6B	3/8"	1/4"	19	33	49 g	100
05055036	U3-6C	3/8"	3/8"	22	35	54 g	100
05055046	U3-6D	3/8"	1/2"	27	40	85 g	50
05055038	U3-8C	1/2"	3/8"	22	38	63 g	50
05055039	U3-8D	1/2"	1/2"	27	44	100 g	50



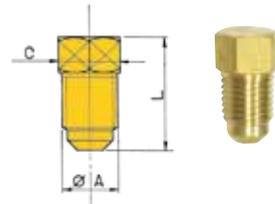
REDUCED UNIONS SAE FLARE F X NPT M

Code	Model	ØA flare	ØB NPT	C esag.	L mm	Weight	Min. Qty
05055040	U5-4A	1/4"	1/8"	17	28	21 g	100
05108143001	U5-4AK	1/4"	1/8"	17	28	210 g	10
05055041	U5-4B	1/4"	1/4"	17	30	39 g	100
05108144001	U5-4BK	1/4"	1/4"	17	30	390 g	10
05055042	U5-6B	3/8"	1/4"	22	34	51 g	100
05108145001	U5-6BK	3/8"	1/4"	22	34	255 g	5
05055043	U5-6C	3/8"	3/8"	22	34	65 g	100
05108146001	U5-6CK	3/8"	3/8"	22	34	325 g	5

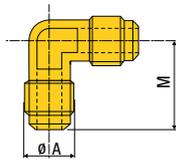


SAE FLARE PLUGS

Code	Model	ØA flare	C esag.	L mm	Weight	Min. Qty
05063030	P2-4	1/4"	12	20	13 g	200
05063032	P2-6	3/8"	17	23	36 g	200
05063033	P2-8	1/2"	20	26	55 g	200

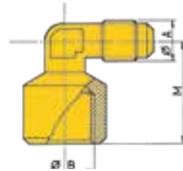


ELBOWS AND TEES



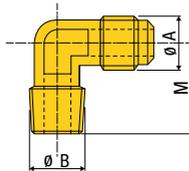
SAE FLARE ELBOWS

Code	Model	ØA flare	M mm	Weight	Min. Qty
05056009	E2-4	1/4"	23	20 g	100
05056022	E2-6	3/8"	30	52 g	50
05056023	E2-8	1/2"	34	86 g	50
05056024	E2-10	5/8"	34	92 g	50



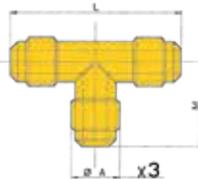
SAE FLARE M X SAE F ELBOWS

Code	Model	ØA flare	ØB flare	M mm	Weight	Min. Qty
05056030	ER3-44	1/4"	1/4"	27	59 g	50



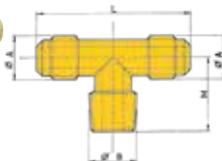
SAE FLARE M X NPT M ELBOWS

Code	Model	ØA flare	ØB NPT	M mm	Weight	Min. Qty
05056011	E1-4A	1/4"	1/8"	23	20 g	100
05056012	E1-4B	1/4"	1/4"	25	31 g	100
05108147001	E1-4BK	1/4"	1/4"	25	310 g	10
05056010	E1-6B	3/8"	1/4"	27	44 g	50
05056039	E1-6C	3/8"	3/8"	27	55 g	50



SAE FLARE TEES

Code	Model	ØA flare	L mm	M mm	Weight	Min. Qty
05057017	T2-4	1/4"	46	22	30 g	100
05108148001	T2-4K	1/4"	46	22	300 g	10
05057018	T2-6	3/8"	52	26	59 g	100
05108149001	T2-6K	3/8"	52	26	590 g	5
05057019	T2-8	1/2"	60	31	95 g	50
05108164001	T2-8K	1/2"	60	31	190 g	2
05057020	T2-10	5/8"	70	35	145 g	50
05057041	T2-12	3/4"	80	41	225 g	50



SAE FLARE X NPT BRANCH TEES

Code	Model	ØA flare	ØB NPT	L mm	M mm	Weight	Min. Qty
05057025	T1-4A	1/4"	1/8"	46	22	29 g	100
05108151001	T1-4AK	1/4"	1/8"	46	22	290 g	10



CONDENSATION WATER PUMPS

- Water dissipater 182
- Condensation water pumps 182-185

WATER DISSIPATER



HYPP0

Water dissipater

It eliminates the water produced by air-conditioning systems.

Usable with all air-conditioning systems with or without heat pump.

Outer container is fireproof and resistant to UV rays.

Single or in series assembly.

The unit must always be connected to the power supply.

Power consumption only when there is water condensation and in proportion to the amount of it.

Water dissipater must be installed exclusively outside the house (outside walls, balconies, etc...) by a qualified installer.

Practical and easy installation.

Economical.

Evaporation capacity: 1,5 l/h (25 cc/min).

Designed and approved in compliance with the CE rules of the European community and IEC 60335.

we suggest the installer to measure the hourly volume of water produced by the system



Code	Model	Dimensions	Weight
02042019	HYPP0	170 x 110 x 55 mm	0,56 kg



Spare parts and accessories

Code	Description
02042034	Completion fitting kit for Hyppo

LITTLE-NOISELESS

Condensation water pump

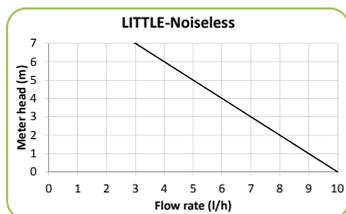
Little is a small condensation water pump that can be incorporated in air conditioners including ceiling and wall-mounted mini-split units. The pump consists of two parts: the pump unit and the detection unit.



Code	Model	Dimensions	Weight
02042003	LITTLE-NOISELESS	130 x 100 x 100 mm	0,3 kg

TECHNICAL FEATURES

For split units up to	10 kW
Maximum flow rate	10 l/h
Maximum discharge head	8 m
Maximum suction	2,5 m
Voltage	230V - 50/60Hz
Alarm contact	NO / NC 230 [V] / 8 [A]
Dimensions pump body	78 x 35,5 x 65 mm
Dimensions detection unit	72 x 38,5 x 39 mm



Spare parts and accessories

Rif	Code	Description
A	02042010	Detection unit with 1,5 m cable
B	02042011	Non return valve 30 x ø8



SMART-12

Mini condensation water pump

SMART-12, with its SLIM conformation, can be easily installed inside the air conditioners indoor unit or trunking. Its elongated body has a height of only 3 cm and a width of 3.4 cm.

Easy installation thanks to the complete set of electrical / hydraulic connections.

Extremely quiet operation.

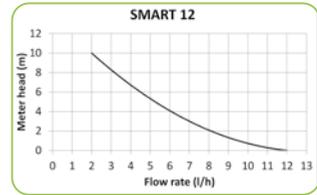
Integrated alarm contact.



Code	Model	Dimensions	Weight
02042033	SMART-12	154 x 30 x 34 mm	0,5 kg

TECHNICAL FEATURES

For split units up to	10 kW
Maximum flow rate	12 l/h
Maximum discharge head	7 m
Maximum suction	2 m
Voltage	100-230V/50-60Hz
Alarm contact	NC 2A-230V
Dimensions pump body	154 x 30 x 34 mm
Dimensions detection unit	86 x 40 x 45 mm



Spare parts and accessories

Code	Description
02042022	Detection unit with 1.5 cable

CUB-18

Condensation water pump

Cub is a small condensation water pump that can be incorporated in air conditioners including ceiling and wall-mounted mini-split units.

Very low noise.

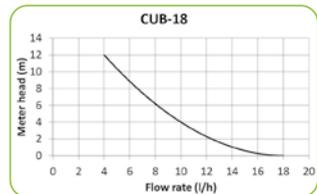
Easy installation thanks to the complete set of electrical and hydraulic connections.



Code	Model	Dimensions	Weight
02042028	CUB-18	260 x 170 x 60 mm	0,7 kg

TECHNICAL FEATURES

For split units up to	12 kW
Maximum flow rate	18 l/h
Maximum discharge head	10 m
Maximum suction	2 m
Voltage	100-230V/50-60Hz
Alarm contact	NC 3A-250V
Dimensions pump body	104 x 49 x 46 mm
Dimensions detection unit	86 x 40 x 45 mm



Spare parts and accessories

Code	Description
02042028	Detection unit with 1.5 cable

CONDENSATION WATER PUMPS



SMILE-EVO

Wall mounted condensation pump

Designed for installation below the air conditioners.

Effective even in the presence of water with impurities.

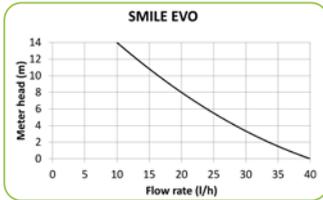
Minimum sound level.

Safety connection to interrupt the supply in case of overflow.

Code	Model	Dimensions	Weight
02042027	SMILE-EVO	160 x 100 x 130 mm	0,6 kg

TECHNICAL FEATURES

Maximum flow rate	40 l/h
Maximum discharge head	10 m
Voltage	230V - 50/60Hz
Tank capacity	200 ml
Power consumption	3W



SIMPLY-EVO

Water tank condensation pump

With a flow rate of 125l/h and Havy duty construction, SIMPLY-EVO is suitable for both air conditioning and refrigeration solutions.

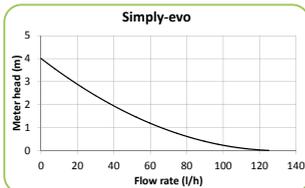
Equipped with forced air cooling, it guarantees great reliability and stable operation..



Code	Model	Dimensions	Weight
02042004	SIMPLY-EVO	286 x 136 x 163 mm	2,4 kg

TECHNICAL FEATURES

Maximum flow rate	125 l/h
Maximum discharge head	4 m
Voltage	230V - 50/60Hz
Tank capacity	1,8 l
Power consumption	NO/NC 230-5A



SILENT

Condensate water pump without neutralization system

Usable for air-conditioning air dehumidification systems.

Usabel for gas boilers up to 400kW.

Made of resistant ABS plastic material.

Can be used with condensing boilers, after installation of a condensate treatment/neutralisation system.

Extremely quiet.



Code	Model	Dimensions	Weight
02042002	SILENT	185 x 85 x 100 mm	1,6 kg

TECHNICAL FEATURES

For gas boilers up to	400 kW
Maximum flow rate	350 l/h
Max delivery height	4 m
Tank capacity	0,5 l
Fluid temperature	70°C
Voltage	230V - 50/60Hz
Alarm contact	Máx 24V. 6VA(NA) Ohm load



CLIMA-CAP

Protective covers for external units

Optimized dimensions for the main R32 units.

Code	Model	Misure	Suitable for
16010010	CLIMA-CAP-M/D	550 x 860 x 340 mm	Mono 20-35 / Multi 2-R32
16010011	CLIMA-CAP-MUL	735 x 980 x 400 mm	Mono 42-60 / Multi 3-4-5-R32



WIGAM AIR CONDITIONING AND REFRIGERATION SYSTEMS AND INSTRUMENTS



HIGH VACUUM PUMPS



PRESSURIZATION SYSTEMS



RECOVERY AND RECYCLING UNITS



TOOLS



CONDENSATION WATER PUMPS



MANIFOLD, HOSES AND ACCESS VALVES



FLUSHING SYSTEMS



LEAK DETECTORS

WELDING - CONSUMABLES

- Welding kits..... 188-192
- Alloys..... 193
- Sealers 194
- Acid test, chemicals and consumables 195-196
- Transfer and flushing pumps 197

WELDING



SPITFIRE/PRO

Complete kit with 1 SPITFIRE torch and 2 MAP-HP cartridges

Features:

- Large and high intensity flame.
- Up to 2200°C high temperature powerful swirl flame.
- For use with MAP-HP and Propane.
- Piezo igniter for instant flame.
- Safety lock feature to prevent accidental ignition.
- Ignition button lock for continuous use.
- Replaceable brass tip.
- Ergonomic handle design.

Code	Model	Dimensions	Weight
10001037	SPITFIRE/PRO	310 x 270 x 120 mm	2,8 kg



SPITFIRE

Torch welder

Features:

- Large and high intensity flame.
- Up to 2200°C high temperature powerful swirl flame.
- For use with MAP-HP and Propane.
- Piezo igniter for instant flame.
- Safety lock feature to prevent accidental ignition.
- Ignition button lock for continuous use.
- Replaceable brass tip.
- Ergonomic handle design.

Code	Model	Dimensions	Weight
10001036	SPITFIRE	320 x 160 x 40 mm	0,46 kg



MAP-HP

Cartridges

Rif	Code	Model	Description	Capacity
A	11003022	MAP-HP	Cartridge	400 g
B	05055071	-	Adapter for use with TURBO SET 90	-

Rif	Code	Temperature	Dimensions	Weight	Min. Qty
A	11003022	1982°C	470 x 160 x 280 mm	11,1 kg	12
B	05055071	-	140 x 100 x 20 mm	0,10 kg	-

SPITFIRE-FLEX/PRO

Complete kit with 1 SPITFIRE-FLEX torch and 2 MAP-HP cartridges

SPITFIRE-FLEX torch with integrated hose to work even in hard-to-reach areas.

Piezo igniter for instant flame.

Flame adjustment.

Powerful swirl flame up to a temperature of 2200 °C.

For use with [MAP-HP](#) and [Propane](#).

Code	Model	Dimensions	Weight
10001041	SPITFIRE-FLEX/PRO	310 x 270 x 120 mm	2,8 kg



SPITFIRE-FLEX

Torch welder with flexible nozzle

Thanks to its flexible nozzle, the new SPITFIRE-FLEX torch welder allows you to work comfortably even in hard-to-reach areas of installations.

Integrated hose of 200 mm (total length of 440mm).

Piezo igniter for instant flame.

Flame adjustment.

Powerful swirl flame up to a temperature of 2200°C.

For use with [MAP-HP](#) and [Propane](#).

Code	Model	Dimensions	Weight
10001040	SPITFIRE-FLEX	75 x 35 x 437 mm	0,6 kg



BELT HOSE KIT

Extension and belt hook for SPITFIRE and SPITFIRE-FLEX

The **BELT HOSE KIT** extension allows you to operate more comfortably by freeing yourself from the load and size of the cartridge.

The [MAP-HP](#) cartridge is attached to the belt by means of the belt holder and the [SPITFIRE](#) or [SPITFIRE-FLEX](#) torch is connected to the cartridge by means of a handy 1300mm hose with valve.

The kit includes:

- 1300mm connecting hose with valve.
- Hook for hanging the [MAP-HP](#) cartridge on the belt.

Code	Model	Dimensions	Weight
10001039	BELT-HOSE-KIT	135 x 60 x 135 mm	0,5 kg



PROPANE AND OXYGEN WELDING KIT

TURBO SET 90

Autogen welding rack

The smallest autogenous welding system with disposable cylinder and cartridge in metal frame.

Compact, it allows professional welding. The system is particularly suitable for hydraulics, conditioning and refrigeration.

Standard equipment

- mignon OXYGEN pressure regulator and gas valve with double protection check valves.
- 2000 mm hoses with double protection valves.
- handle with regulating valves and lance. 80 l.
- Kit of 4 lances for head (63, 100, 160, 225 l).
- Protection goggles.
- multipurpose wrench.
- Brazing alloy.



Code	Model	Description	Temp. °C	Min. Qty
10001013	TURBO SET 90	Complete rack	3000	2 pz
10001030	TURBO SET 90/SB	Rack without cartridges	3000	2 pz

Code	Dimensions	Weight
10001013	400 x 245 x 370 mm	11 kg
10001030	400 x 245 x 370 mm	7,4 kg



Spare parts and accessories

Code	Model	Description	Min. Qty	Dimensions	Weight
11002001	OXIGEN110	Oxygen cartridge	12	310 x 240 x 330 mm	16,3 kg
11003003	MAXIGAS	Maxigas cartridge	12	300 x 240 x 290 mm	5,9 kg
10002014	220500	Oxygen regulator	-	60 x 30 x 30 mm	0,15 kg
10002015	201500	Propylene regulator	-	60 x 30 x 30 mm	0,15 kg
10005013	110005	Handgrip with head, lance 80 l, check valves and hoses	-	240 x 230 x 50 mm	0,65 kg
10004021	110600	Head and lance 80 l	-	130 x 100 x 10 mm	0,05 kg
10004033		Kit 4 spare lances for head	-	-	-



HEAT DISSIPATERS

Helps prevent heat damage to components and surrounding materials during soldering.

Helps protect rubber, plastic, painted and finished surfaces during soldering.

Sticks to surfaces without dripping or running off.

Safe, non-toxic.

Reduces danger of fire to surrounding surfaces.

Available in:

- Gel in convenient spray solution **A** and **B**.
- Reusable paste **C**.



Rif	Code	Model	Capacity	Min. Qty	Dimensions	Weight
A	12003007	11509	0,947 lt	12	320 x 80 x 80 mm	1,06 kg
B	12003010	HOT-BUSTER-GEL	1 lt	6	320x80x80 mm	1,00 kg
C	12003009	HOT-BUSTER-PASTA	500 g	4	90 x d.105 mm	0,5 kg

80P/B

Propane and oxygen bottles kit on metal frame

Rif	Code	Model	Empty oxygen bottle	Empty propane bottle
A	10001022	80P/B	5 l	2 kg

Rif	Code	Dimensions	Weight
A	10001022	690 x 430 x 280 mm	14,6 kg

80P/R

Propane and oxygen pressure regulator kit

Propane pressure regulator and oxygen pressure regulator kit complete with gauges, check valve, handle with one 160 lt LP lance and hoses.

Rif	Code	Model	Dimensions	Weight
B	10001023	80P/R	360 x 360 x 210 mm	4,7 kg



80A/B

Acetylene and oxygen bottles kit on metal frame

Rif	Code	Model	Empty oxygen bottle	Full acetylene bottle
A	10001026	80A/B	5 lt	5 l

Rif	Code	Dimensions	Weight
A	10001026	690 x 430 x 280 mm	14,6 kg

80A/R

Acetylene and oxygen pressure regulator kit

Acetylene pressure regulator and oxygen pressure regulator kit complete with gauges, check valve, handle with 3 LP lances of 160, 225 and 315 l and hoses.

Rif	Code	Model	Dimensions	Weight
B	10001027	80A/R	360 x 360 x 210 mm	5,2 kg



Spare parts and accessories



Rif	Code	Model	Description	Capacity	Dimensions	Weight
A	11002002	BOS 50	Empty oxygen bottle	5 lt	550 x 150 x 150 mm	7,6 kg
B	05002026	VO 5	Oxygen valve for BOS 50	-	-	-
C	11003017	BAC 50/C	Full acetylene bottle	5 lt	550 x 150 x 150 mm	11,6 kg
D	11003004	BOP 5	Empty propane bottle	2 kg	270 x 200 x 200 mm	3,3 kg

SPARE PARTS AND ACCESSORIES FOR PRESSURE REDUCERS



Pressure regulators



Rif	Code	Model	Description	High pressure bar	Low pressure bar	Working pressure bar
A	10002001	RPM	Miniature propane regulator	-	-	-
B	10002005	PR 04	Propane regulator	-	0 ÷ 6	4
C	10002003	AC 14	Acetylene regulator	0 ÷ 315	0 ÷ 16	10
D	10002009	AC 14/P	Acetylene regulator for 80A	0 ÷ 40	0 ÷ 2,5	1,5
E	10002002	OS15	Oxygen regulator	0 ÷ 315	0 ÷ 16	10
F	10002008	OS 15/P	Oxygen regulator for 80A	0 ÷ 315	0 ÷ 16	4
G	10002004	AZ 11	Nitrogen regulator	0 ÷ 315	0 ÷ 16	10



Spare parts and accessories for pressure regulators



Rif	Code	Model	Description
A	10010023	95513	Diaphragm for regulator
B	10010015	TB	Twin hose
C	10005001	IM	Handle
D	10004XXX	LA	Acetylene welding head 25 ÷ 315 l
E	10004XXX	LP	Propane welding head 25 ÷ 500 l
F	10010002		Lighter
G	10010012	VO	Straight oxygen check valve
H	10010013	VSP	Traight propane- acetylen check valve
I	10010XXX		Replacement gauge for regulator
L	10005008		Intermedia oxygen valve
M	10005009		Intermedia gas valve

734

Brazing alloy for copper-brass welding

Code	Model	Diameter	Alloys compositions%			Fusion temp.	Conf.
			Ag	Cu	Zn		
10003013	734	1,5 m	34	36,2	27,1	630-730 °C	500 g



DP250

Flux powder

Code	Model	Conf.
10003004	DP250	250 g



734R

Brazing alloy for copper-brass welding covered with flux

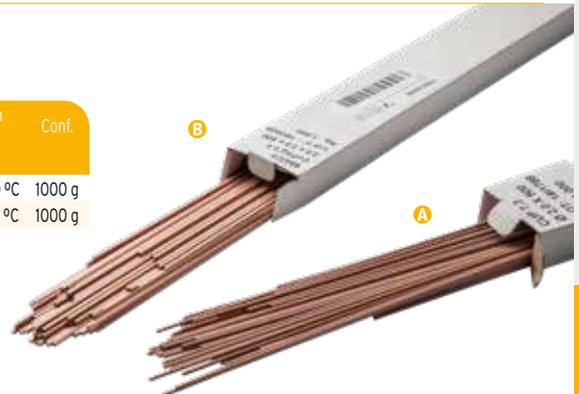
Code	Model	Diameter	Alloys compositions%			Fusion temp.	Conf.
			Ag	Cu	Zn		
10003014	734R	1,5 m	34	36	27	630-730 °C	500 g



615/654W

Brazing alloy for copper-copper welding

Rif.	Code	Model	Diameter	Alloys compositions%			Fusion temp.	Conf.
				Ag	Cu	Zn		
A	10003001	615	2,0	-	92,4	7,6	705-800 °C	1000 g
B	10003006	654	2,0	0,4	92,6	7	680-745 °C	1000 g



SEALERS

**10001**

Thread locker

Code	Model	Capacity	Dimensions	Weight	Min. Qty
12003002	10001	40 cc	145 x 100 x 100 mm	0,6 kg	12

**HST**

Epoxy Sealer

Stops leaks fast.

Makes tough, cured, epoxy repairs in as little as 90 seconds.

Melts and cures in one operation.

Restores service immediately.

Effective for all refrigeration systems.

Withstands pressure to 600 psi.

Resists temperatures to 350°F (177°C).

Works on all metals, ceramics, even glass.

Seals all refrigeration systems.

Code	Model	Capacity	Dimensions	Weight	Min. Qty
12003004	HST	11,7 g	140 x 120 x 150 mm	0,35 kg	12

**L542/LX53-14**

Thread sealers

Rif	Code	Model	Capacity	Dimensions	Weight	Min. Qty
A	12003005	L542	50 cc	180 x 110 x 60 mm	1 kg	12
B	12003008	LX53-14	50 cc	150 x 55 x 30 mm	0,8 kg	10

**NAC10**

Anti-condensation flexible and reinforced ribbon for heat insulation

Anti-condensation ribbon in synthetic rubber.

Rolls dimensions: 0,03 x 50 mm x 10 m.

Code	Model	Operating temp.	Dimensions	Weight	Min. Qty
12004001	NAC10	-25°C +120°C	450 x 450 x 320 mm	4,5kg	24

**NAL50**

Alluminium adhesive ribbon

Alluminium adhesive ribbon with silicon paper support.

Rolls dimensions: 0,03 x 50 mm x 50 m.

Code	Model	Dimensions	Weight	Min. Qty
12004002	NAL50	270 x 270 x 320 mm	11 kg	24

AT-4

Acid kit test

Acid test for oil samples taken from refrigeration and air conditioning systems. The kit consists of 4 vials useful to perform 4 tests. The test can be carried out on both mineral and polyester oils.



Code	Model	Dimensions	Weight
12001081	AT-4	95 x 55 x 55 mm	0,09 kg

QWICK-CHECK

QwickCheck rapid acidity test

Quick and simple to use, QwickCheck supports the refrigeration technicians in identifying acidity problems promptly. It is ideal both in the preventive maintenance phase and to check the status of the plant following the replacement of a compressor.

QwickCheck detects the presence of inorganic acids in a few seconds thanks to a simple test performed on the refrigerating unit in operation.

QwickCheck operates with all refrigerants and oils and is not subject to the false positives typical of POE oils.

The color change from Yellow to Red selects underlines the presence of inorganic acids in the system. system: (test for inorganic acids to the ARI-700 limit of 1ppm).



Code	Model	Description	Dimensions	Weight
12001069	QWIK-CHECK	Test rapido acidità	40 x 40 x 20 mm	0,03 kg



Acids are typically formed by chemical reactions with components and / or materials present in the circuit, lubricating oils and / or impurities. Performing preventive acidity tests is a recommended practice as acidity conditions that are not managed promptly can lead to malfunctions and premature rupture of the compressor.

The esterification process used for the production of POE oils (a synthetic aesthetic base) and the possibility of residual presence of organic acids can lead, with traditional acidity kits, to false positives.

Systems equipped with hermetic compressors, typically more prone to breakage, are rarely subject to control as they are normally without oil withdrawal points.



CHEMICALS AND CONSUMABLES



18004

Acid neutralizer liquid

Completely eliminates and prevents acid in HVAC system.

Code	Model	Capacity	Dimensions	Weight	Min. Qty
12001036	18004	118 cc	195 x 145 x 135 mm	1,7 kg	12



THAWZONE

Dehydrating fluid

Neutralizes water and acid inside the cooling system forming neutral compounds

Easy to use, available in bottles of different capacity.

Rif	Code	Model	Capacity	Dimensions	Weight	Min. Qty
A	12001013	17001	29 cc	195 x 140 x 110 mm	1 kg	24
B	12001014	17004	118 cc	195 x 145 x 135 mm	1,5 kg	12



21004

Tracer fluid

Added to the refrigerant, it pinpoints the leakage.

Suitable for halogenated refrigerants, ammonia, amethyl chloride, sulfur dioxide.

With additive for any type of UV lamp..

Code	Model	Capacity	Dimensions	Weight	Min. Qty
12001032	21004	118 cc	195 x 145 x 135 mm	1,6 kg	12



OIL CHECKER

Oil test check

Identifies:

Polyol Ester (POE).

Alkibenzene (ABZ).

Mineral oil.

Code	Model	Dimensions	Weight	Min. Qty
12001054	OIL-CHECKER	95 x 55 x 55 mm	0,09 kg	12

ETO-4

Electric oil transfer and flushing pump

Suitable for all the common refrigeration oils.

Suitable for oil charging in HVAC systems.

Suitable for the removal of the oils from the HVAC systems.

Complete with aspiration hose and a pressure hose with adapters.

Suitable for flushing the systems using FORMULA fluid and the connecting kit KIT-ETO-HVAC (see pag. 24).

Code	Model	Dimensions	Weight
02041028	ETO-4	290 x 200 x 275 mm	7 kg



W52013

Oil charging pump

The W52013, for all oil containers, allows to charge oil inside the compressor of refrigeration systems, thus avoiding the danger of introducing air and humidity.

Code	Model	Capacity for stroke	Dimensions	Weight
02041025	W52013	52 ml	500 x 160 x 90 mm	1,44 kg



R-ECOPUMP

Oils and refrigerants charging and recovery pump

R-ECOPUMP has such design features as to allow the recovery/ transfer/ charge not only of oils but also of flammable refrigerants such as A3, or A2L reaching an excellent vacuum. (See at R290/R600 section also).

The unit is extremely flexible as it has a convenient pedestal, delivery/suction hoses with valves and a check valve.

Code	Model	Cap. for each stroke	Dimensions	Weight
13001026	R-ECOPUMP	125 ml	580 x 255 x 140 mm	3 kg



THE PROFESSIONAL VACUUM MADE IN ITALY!

KIT-50-IPERVUOTO

Kit composed of:

- RS9DE/V vacuum pump
- IPERVAC-5 5/16" quick vacuum kit
- X-VG precision vacuum gauge
- WIGAM polo shirt

Code	Model
01013021	KIT-50-IPERVUOTO-RS9

CELEBRATE THE 50th ANNIVERSARY WITH US
POLO INCLUDED



RS LINE



X-MAN
WIGAM

CELEBRATE THE 50th ANNIVERSARY WITH US
POLO INCLUDED



TOTAL SOLUTION!

KIT-50-X-MAN

Kit composed of:

- X-MAN-480 digital manifold gauge set with X-VG, 2x X-TFC, X-Scale, and hoses
- WIGAM backpack for tools included
- WIGAM polo shirt

Code	Model
01013024	KIT-50-X-MAN

KIT-50-RICICLO

Kit composed of:

- EASYREC-3R recovery and recycling unit
- SPY-CHECK-HVAC diagnosis instrument
- PRATIKA100-05 electronic scale
- W2-WR10K/48 recovery cylinder
- WIGAM sweatshirt

Code	Model
01013022	KIT-50-RICICLO

CELEBRATE THE 50th ANNIVERSARY WITH US
SWEATSHIRT INCLUDED



RECOVER - RECYCLE - REUSE



SPY



CELEBRATE THE 50th ANNIVERSARY WITH US
THERMAL VEST INCLUDED

R290 - ATEX EQUIPMENT

KIT-50-R290-START

Kit composed of:

- EASYREC-3EX recovery unit
- RS3DE/V-EX vacuum pump
- FAN-ATEX Zone 2 ATEX fan
- WIGAM thermal vest

Code	Model
01013023	KIT-50-R290-START

LIMITED EDITION 50TH ANNIVERSARY

BLUE T-SHIRT



BLUE AND WHITE POLO SHIRT



BLUE FLEECE



Code	Model
90005003	WIGAM SWEATSHIRT (BLUE)
90005024	WIGAM SWEATSHIRT (WHITE)
90005004	WIGAM POLO SHIRT (BLUE)
90005025	WIGAM POLO SHIRT (WHITE)
90005005	WIGAM T-SHIRT (BLUE)
90005007	WIGAM THERMAL VEST (BLUE)
90005023	WIGAM FLEECE (BLUE)
90005022	BACKPACK FOR TOOLS



1976 - 2026

BLUE AND WHITE SWEATSHIRT



BACKPACK FOR TOOLS



BLUE THERMAL VEST





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Prices are per unit, list prices and do not include VAT.

Packaging is invoiced at cost.

The Min. Qty column indicates the minimum orderable quantity.



Symbol indicates the pieces included in the kit.

In this case, price refers to the kit.

Prices are considered Ex-Works and can be changed by us without notice.

The goods are shipped at the consignee's risk, even if sold franco domicile. If there is no precise indication, goods will be shipped with one of our forwarders, without our being responsible.

No complaint will be considered valid and accepted after five days from the receipt of goods.

Any comment on the price invoiced must be done immediately.

Orders are always accepted without commitment regarding delivery times.

Delivery dates on order confirmations are approximate.

Deliveries are subject to the availability of raw material on the market.

Payments are not recognized unless effected to our domicile.

Return of goods are not accepted unless authorized and carriage free.

For any controversy, the place of jurisdiction is Arezzo, seat of our company, whatever are the way and the place agreed for the payment and the delivery.



WIGAM S.p.A.

HEADQUARTERS:

Loc. Spedale, 10/b
52018 Castel San Niccolò
(Arezzo) Italia
Tel. +39 0575 5011
Fax +39 0575 501200
www.wigam.com
info@wigam.com

BRANCH OFFICE:

Via Sibari, 15
20141 (Milano) Italia
Tel. +39 02 57307472
Fax +39 02 56804118

WIGAM IBERICA INSTRUMENTS, S.L.

HEADQUARTERS:

C/ Séquia Benáger, 19
Pol. Ind. Alquería de Moret
46210 Picanya (Valencia) España
Tel. +34 961 59 49 31
comercial@wigam.es
www.wigam.es

BRANCH OFFICE:

Edificio Madrid 92
C/ Chile, 10. Oficina 107
28290 LAS ROZAS (Madrid)
Tel. 910 299 663
comercial@wigam.es