

HC (R290 - R600A  
- R1270)

 **WIGAM**

# 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

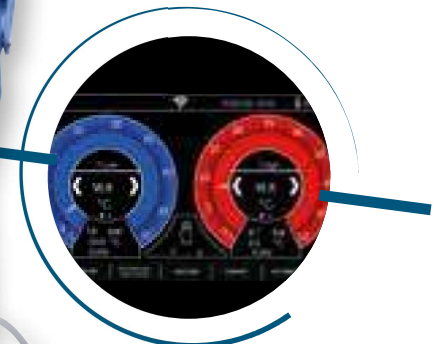
The digital manifold turns into your compact ATEX 4.0 digital automatic unit. IDO ATEX is suitable to work with flammable refrigerants such as R290 and R600a and thanks to its electronics and its large LCD Touchscreen, it does not only display information and measurements, but also manages the various 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.



BOTTLES NOT INCLUDED IN THE KIT



Large touchscreen digital control display

AUTOMATIC CYCLES



Management of PRESSURIZATION and TEST



Management of VACUUM and Test



Management of CHARGE





## 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 52-53): 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 Azidro.
- 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	Empty pump	Packaging dimensions	Weight
01090036	IDO-ATEX	RS3D-EX	650 x 400 x 380 mm	22,00 kg

### 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	Model
09053054	Calibration report for IDO



### Technical features



Refrigerant	CFC, HCFC, HFO, HC-A3 (R290,R600a...)
Dual stage vacuum pump	46 l/min
Scale	35 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 cylinders	1/4"SAE, 5/16"SAE + Bearings 7/16"SAE, 1/2"-16ACME Sx

### 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 variation:

- KOMPACT ATEX : suitable for HC (R290, R600) and precision charges.
- KOMPACT HFC (pag 87): 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).
- Hi-Accuracy Injection system (injection gun).
- Discharge procedure supported by integrated 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.
- 35 scale for bottles/cylinders of different volumes.
- Integrated compartments to accommodate and transport cylinders or cartridges of refrigerant and Nitrogen.
- Handle and wheels for easy handling.
- Supports for bottles 7/16", 1/2" 16 ACME Sx, 5/16"SAE

Ref	Code	Model	Vacuum pump
A	01090037	KOMPACT-ATEX-TOUCH	RS3D-EX (46l/min)
B	01090039	KOMPACT-ATEX-TOUCH/180	RS9D-EX (180l/min)

Ref	Code	Dimensions	Weight
A	01090037	550 x 330 x 360 mm	12,8 kg
B	01090039	550 x 330 x 360 mm	14,8 kg



## Calibration

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



## Technical features

Refrigerants	HC, CFC, HCFC, HFC, HFO
Two-stage pump	RS3D-EX (46 l/m) or RS9D-EX (180l/m) ATEX
Scale	35 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"

### AUTOMATIC FUNCTIONS:

- Nitrogen test for leak test.
- Test with azidro 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	CYCLE 2
Nitrogen test	HC discharge
Vacuum and test vacuum	Nitrogen test
Refrigerant charge	Vacuum and test vacuum
	Refrigerant charge





## Application examples



## Spare parts and accessories



Ref	Code	Model	Description	Mn. 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	10
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.	-



Cartridge not included



Detail of the kit with solenoid valve and vacuum meter

### KIT K-EX-46D/D6

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
<b>A</b>	01010008001	K-EX46D/D6
<b>B</b>	01010008003	K-EX-EV-46D/D6

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

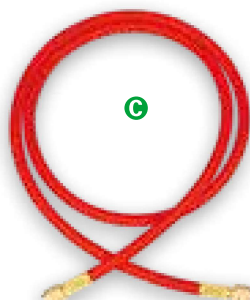
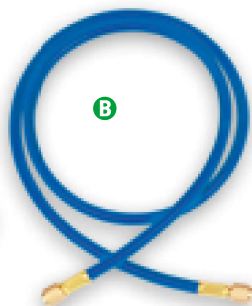


### Technical features

Scale capacity	5 kg
Pump volume	46 l/min
Ultimate vacuum	1x10 <sup>-2</sup> mbar



### Spare parts



Ref	Code	Model	Description	Mn. Qty
<b>A</b>	06053010		Vapour exhaust pipe 5 m	-
<b>B</b>	06071002001	GYSS/4-4/60 B	Hose 1500 mm 1/4 x 1/4 - Blue	-
<b>C</b>	06071002002	GYSS/4-4/60 R	Hose 1500 mm 1/4 x 1/4 - Red	-
<b>D</b>	12002003	K1L	Mineral oil 1 l	12 pz



## RS LINE ATEX

### ATEX high vacuum pumps

Designed specifically to operate, according to the ATEX directive with systems using A3 refrigerants such as HC (such as R290 and R600a).

Model RS3D (46l/min) is available both in version without (A) and with solenoid valve and vacuum gauge (B).

Model RS9D (180l/min) is available only in version with solenoid valve and vacuum gauge (C).

Equipped with 5m vapour discharge 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
C	02099038	RS9DE/V-EX	350 x 150 x 280 mm	12.5 kg



### Technical features

	RS3	RS9
Swept volume	46 lt/min	180 lt/min
Ultimate vacuum	1x10 <sup>-2</sup> mbar	1x10 <sup>-2</sup> 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) 1/4",5/16",3/8"SAE (RS3DEV)	1/4", 5/16", 3/8" SAE



### Spare parts

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

A



CE ATEX II 3G c T3

B



C



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

With regulation screw.

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

Code	Connections	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





**NEW**



CE Atex II 3G



**NEW 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 with pack	Weight with pack
13001030	EASYREC-3EX	380 x 360 x 250 mm	11,90 kg

Recovery rate	R600a- R1234yf-R134a	R290- R502-R407	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



**Technical features**

Refrigerant	HC (R600a-R290) CFC-HCFC-HFC-HFO
Power supply	220 - 240V AC 50 - 60 Hz
Motor power	750W
Compressor	Double piston, dry
Automatic safety shut-off	38.5 bar/3850 kPa (558 psi)
Operating temperature	0 - 40 °C



**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	"Hight capacity" filter drier (1/4" SAE M-M)	250 x 80 x 80 mm	1,10 kg
B	14015042	XH412-A	"Hight 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	REC026	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 certified ATEX ZONE 2 (CE ATEX II 3G Ex ec IIC Gc).
- 5 mt power cable.
- Optimum capacity in compact dimensions.
- Capacity: 25 m<sup>3</sup>/min.
- Diameter: 254 mm.
- Power: AC 230V-50/60 Hz.

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



CE ATEX II 3G Ex ec IIC Gc



## 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 m, blue and red.

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

Ref	Code	Dimensions	Weight
<b>A</b>	13001026	580 x 255 x 140 mm	3 kg
<b>B</b>	11001124		5,9 kg



### Technical features

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

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



# DIGITAL MANIFOLD



ATEX II 3G Ex nA IIA T3 Gc



## FOX-EX/100

4-way digital manifold (ATEX Zone 2)

The FOX-EX 4-way digital manifold (ATEX Zone 2) is designed specifically to support refrigerators in service operations on systems that use A3 refrigerants such as R290 and R600a.

FOX-EX/100 (ATEX Zone 2), responding to the needs of an evolving market that will see in refrigeration the increasing spread of refrigerants with reduced environmental impact, is extremely flexible thanks to 50 other refrigerants in memory (see list at page 58).

FOX-EX/100 offers all the features of the FOX series.

Features and equipment:

- 4-way piston manifold 3x1/4" (LOW-HIGH-REF) and 1x3/8" (VAC).
- Database with more than 50 refrigerants (CFCs, HCFCs, HFCs, Hydrocarbons and HFOs).
- Maximum operating pressure 56 bar.
- 2 Pressure Transducers (Range -0.99 )
- Precision class better than 1% FS.
- 2 K-type temperature probes.
- Ambient temperature probe.
- Pressure test with nitrogen.
- Standard equipment:
- 2 TK109 (3 m) probes.
- Robust and practical case.

Code	Model	Dimensions	Weight
04080014001	FOX-EX/100	310 x 370 x 130 mm	2 Kg



## Displayed readings

- Low pressure side (LOW)
- High pressure side (HIGH)
- Temperature T1
- Temperature T2
- Ambient temperature
- Refrigerant saturation temperature (LOW)
- Refrigerant saturation temperature (HIGH)
- Calculating the temperature difference T2 -T1
- Subcooling
- Superheating
- Type of refrigerants



## Calibration

Code	Model
09053012	Calibration report ref. Accredia for FOX
14025158	Refrigerating database upgrade



## Accessories for FOX-EX/100

Ref	Code	Model	Description
A	05059049001	LOCK-VALVE1/4	Access valve 1/4" SAE F x 1/4" SAE M
A	05059053001	LOCK-VALVE/5-4	Access valve 5/16" SAE F x 1/4" SAE M
B	14020097	G-LV/T-WIG	Kit 5pz seals for LOCK VALVE
C	08008059	LOCK-VALVE-CARE	Gaskets easy replacement tool in LOCK-VALVE, EW and hoses
D	06140001	IVSS/6-6/36	Hose IperVAC 900 mm 3/8" SAE





## CHARGING OPTIMIZATION DEVICE AND 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	W1VRML80/D6/4/K1	220 x 240 x 70 mm	0,7 kg



## CARTRIDGES, VALVES AND SUPPORTS FOR R600A

Disposable cartridges with refrigerant R600a

Ref	Code	Model	Refrigerant	Refrig. Qty	Connections	Mn. Qty	Weight
<b>A</b>	11001026	BF420/R600	R600a	420 gr	7/16"	12	0,60 kg

Valves and supports for disposable cartridges R600a

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



## CARTRIDGES, VALVES AND SUPPORTS FOR R290

Disposable cartridges with refrigerant R290

Ref	Code	Model	Refrig.	Refrig. Qty	Connections	Mn. Qty	Weight
<b>A</b>	11001085	BF370/R290	R290	370 gr	1/2" 16 ACMESX	12	1,15 kg

Valves and supports for disposable cartridges R290

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





## PIERCING PLIERS AND VALVES



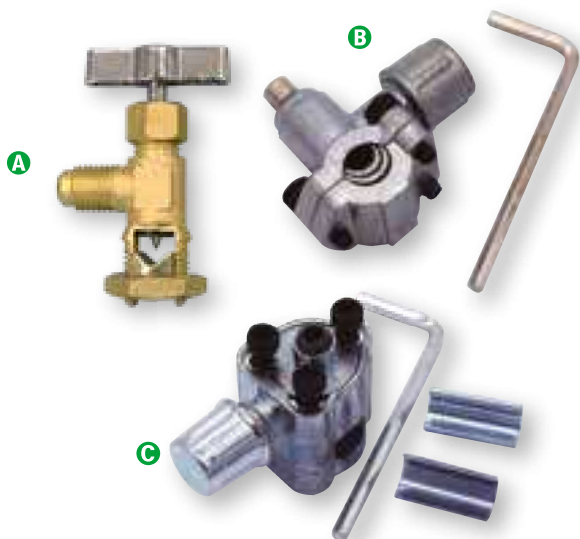
### PIERCING PLIERS

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	WVP31	1/4"SAE	6,3-7,9-9,5-10	10
C	05004002	BPV 21	1/4" SAE	12,7-15,8	8
C	05004003	BPV 31	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	from 1/8" to 1/2" (from 3 mm to 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, butane, ethanol, etylene oxide, gasoline, hydrogen, industrial solvents, methanol, paint thinners, naphtha, GPL, etc.

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



### Technical features

Technology	semi-conductor
Maximum sensitivity	<50 ppm
Calibration	automatic
Warm-up time	from 25 to 90 seconds
Response time	5 seconds
Probe Length	30 cm
Power supply	2x 1,5V AA alkaline batteries
Batteries life	11 hours



ATEX II 3G Ex nA IIA T3 Gc



### Spare parts

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

## 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	Quantity	Dimensions	Weight
09001024	32850	473 ml	260 x 70 x 70 mm	0,6 kg



# SELF-LOCKING COUPLINGS

**NEW**

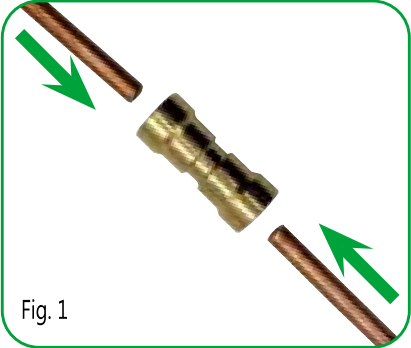
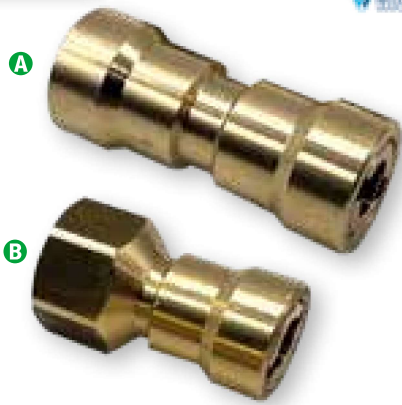


Fig. 1



Fig. 2



## 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).

### BENEFITS

- ✓ HERMETIC CONNECTIONS WITHOUT BRAZING OR SPECIAL TOOLS
- ✓ CONNECTIONS TO THE UNITS WITHOUT FLANGING
- ✓ FOR ALL REFRIGERANTS UP TO 52BAR
- ✓ 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



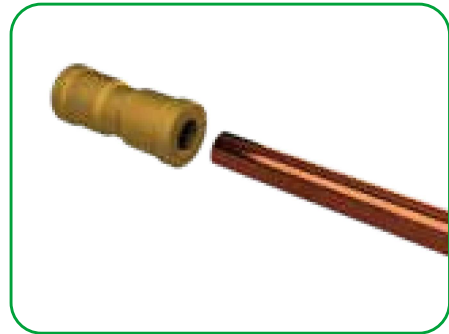
### Illustrative indications of the coupling installation



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



## 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"	xx		20 x
05068005	IPER-LINK/S/6-8	Kit 2 reduced linear couplings 3/8"x1/2"	3/8"	1/2"	xx		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 90° couplings 1/4"x1/4"	1/4"	1/4"	22x22		10 x
05068007	IPER-LINK/L/6-6	Kit 2 90° couplings 3/8"x3/8"	3/8"	3/8"	29x29		10 x
05068008	IPER-LINK/L/8-8	Kit 2 90° couplings 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 fittings 1/4"x1/4"SAE	1/4"	1/4"SAE	34		10 x
05068010	IPER-LINK/S/6-6F	Kit 2 fittings 3/8"x3/8"SAE	3/8"	3/8"SAE	41		10 x
05068011	IPER-LINK/S/8-8F	Kit 2 fittings 1/2"x1/2"SAE	1/2"	1/2"SAE	44		10 x



## Spare parts

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



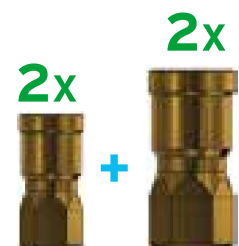
## IPER-LINK - LINEAR EXTENSION KIT

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

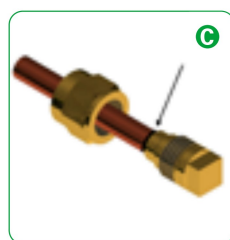
Code	Ø tube	Weight
05108109	1/4" 6mm	40 gr
05108109001	1/4" 6mm	400 gr



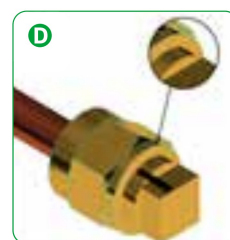
**A** Insert the tube into the EASY CAP system.



**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	Mn. Qty
14023023	M1/4"-R290/V	Internal core for HC R290 R600 1/4"	500
05108110001	M1/4"-R290/VK	Kit 10 pz internal core for HC R290 R600 1/4"	



### CAP WITH GASKET FOR HC (R290, R600a)

Code	Model	Description	Mn. Qty
05063055	CP1/4"-R290	Cap for HC service ports R290-R600a equipped with internal core	500
05108111001	CP1/4"-R290K	Kit of 10 pcs of cap for R290-R600a	