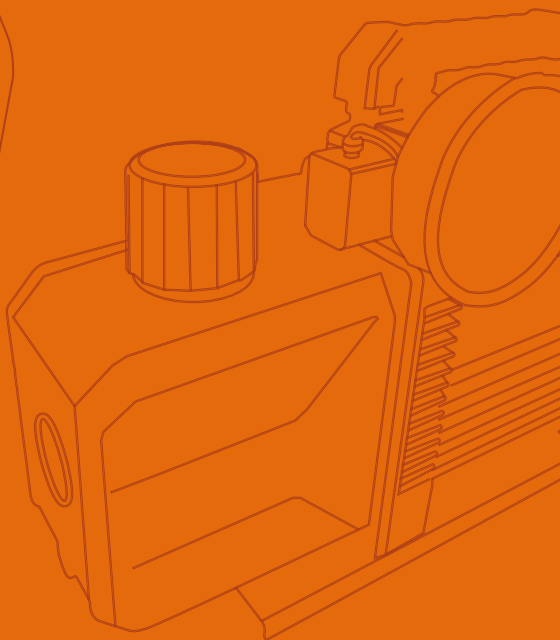




# Toolsplit

Instruments & Tools

## INSTRUMENTS & TOOLS



 **Tecnosystemi**  
group

VACUUM PUMPS

BBR

- Two-stage pump
- Vacuum rating 15 micron
- 1/4" SAE pump coupling
- Oil bath vacuum gauge Ø 50 mm
- Refrigerants: CFC, HCF, HFC (R12, R22, R32, R410a, R134a, 1234YF)



BEV

- Two-stage pump
- Vacuum rating 15 micron
- Power supply 230V - 50Hz
- 1/4" SAE pump coupling
- Vacuum gauge
- Can be used with all types of gas, even with R32



BEV-BO

- Two-stage pump
- Vacuum rating 15 micron
- 1/4" SAE pump coupling
- Oil bath vacuum gauge Ø 63 mm
- Can be used with all types of gas, even with R32



BEV-MB

- Two-stage pump
- Vacuum rating 15 micron
- Power supply 230V - 50Hz
- 1/4" SAE pump coupling
- Vacuum gauge
- Can be used with all types of gas, even with R32



M1

- Single-stage pump
- Vacuum degree 5 Pa/15 µ
- Power supply 230V - 50Hz
- 1/4" SAE pump coupling
- Can be used with all types of gas, even with R32



M

- Single-stage pump
- Vacuum degree 2 Pa/15 µ
- Power supply 230V - 50Hz
- 1/4" SAE pump coupling
- Can be used with all types of gas, even with R32



	MODEL	FLOW RATE	DEGREE OF VACUUM	POWER	FLEXIBLE HOSE COUPLER	OIL TANK CAPACITY
	TS56 BBR	56 l/min	15 micron	1/4 HP	1/4"	250 ml
NEW	TS84 BBR	84 l/min		1/2 HP	1/4" - 3/8"	460 ml
NEW	TS122 BBR	122 l/min		1/4 HP	1/4" - 3/8"	460 ml
	TS85 BEV-BO	85 l/min		1/2 HP		360 ml
	TS113 BEV-BO	113 l/min		1/2 HP		410 ml
	TS170 BEV-BO	170 l/min		3/4 HP	1/4"	410 ml
	TS226 BEV-BO	226 l/min		1 HP		620 ml
NEW	TS340 BEV-BO	340 l/min		1 1/2 HP		660 ml
	TS56 BEV-MB	56 l/min		1/4 HP	1/4"	200 ml
	TS 84 BEV-MB	84 l/min		1/2 HP	1/4" - 3/8"	460 ml
	TS 112 BEV-MB	112 l/min	2 Pa - 15 micron	1/2 HP	1/4" - 3/8"	410 ml
	TS 168 BEV-MB	168 l/min		3/4 HP	1/4" - 3/8"	360 ml
	TS85 BEV	85 l/min		1/2 HP		360 ml
	TS113 BEV	113 l/min		1/2 HP	1/4"	410 ml
	TS170 BEV	170 l/min		3/4 HP		410 ml
	TS226 BEV	226 l/min		1 HP		620 ml
	TS56 M1	56 l/min		1/4 HP	1/4"	330 ml
	TS85 M1	85 l/min				330 ml
	TS70 M	70 l/min		1/4	1/4"	300 ml

RHTSB

1 HP RECOVERY STATION WITH BRUSHLESS MOTORS FOR R32 GAS

- Voltage: 220V - 230V AC 50/60 Hz
- 1 HP oil-free compressor
- High pressure shut-down 38.5 bar
- Refrigerants: R12, R134A, R401C, R406A, R500, R1234yf, TR422ABCD (R22), R401A, R401B, R402B, R407C, R407D, R408A, R409A, R502, R509, R402A, R404A, R407A, R407B, R410A, R507, R32
- Recovery rates: R134a fluid: 3.36 kg/min; push-pull: 7.5 kg/min - TR422ABCD (R22) fluid: 4 kg/min; push-pull: 8.5 kg/min - R410A fluid: 4.2 kg/min; push-pull: 9.5 kg/min
- Speed: 3000 RPM
- Operating temperature from 0°C to +40°C
- Outer body made of high-impact blow-moulded polyethylene

R32

1 HP

Complete with digital display

NEW



CE

RHTS

1 HP RECOVERY AND RECYCLING STATION WITH OIL SEPARATOR FOR R32 GAS

- Voltage: 220 - 204 V 50 Hz
- 1 HP oil-free compressor
- High pressure shut-down 38.5 bar
- Refrigerants: R12, R134A, R401C, R406A, R500, TR422ABCD (R22), R401A, R401B, R402B, R407C, R407D, R408A, R409A, R411A, R411B, R412A, R502, R509, R402A, R404A, R407A, R410A, R507, R32, HFO-1234YF
- Recovery rates of TR422ABCD (R22): vapour: 0.25 kg/min; fluid: 1.80 kg/min; push-pull: 5.60 kg/min
- Final vacuum 15" Hg
- Operating temperature from 0°C to +40°C
- Outer body made of high-impact blow-moulded polyethylene

R32

1 HP

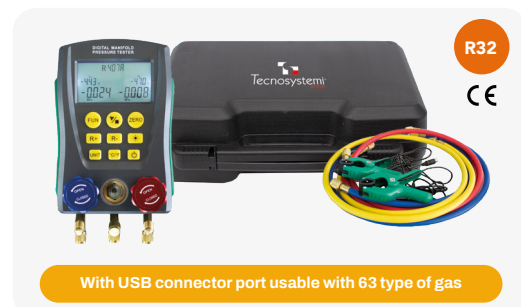
3/4 HP



CE

MODEL	HP	REFRIGERANTS	VAPOUR	FLUID	PUSH-PULL
RHTSB	1 HP	R12, R134A, R401C, R406A, R500, R1234YF, TR422ABCD (R22), R401A, R401B, R402B, R407C, R407D, R408A, R409A, R502, R509, R402A, R404A, R407A, R407B, R410A, R507, R32	XXX kg/min	XXX kg/min	XXX kg/min
RHTS	1 HP	R12, R134A, R401C, R406A, R500, TR422ABCD (R22), R401A, R401B, R402B, R407C, R407D, R408A, R409A, R411A, R411B, R412A, R502, R509, R402A, R404A, R407A, R410A, R507, R32, HFO-1234YF	0,25 kg/min	1,80 kg/min	5,60 kg/min
	3/4 HP				

## COMPACT 2-WAY DIGITAL PRESSURE GAUGE UNIT KIT, SUPPLIED IN A CARRYING CASE



- Units of measurement kPa, mPa, bar, inHg, psi
- Measuring range -101 kPa – 6000 kPa
- Resolution 1 kPa
- Pressure accuracy: +/- 0.5%
- Pressure limit: 10000 kPa (10 mPa; 100 bar;)
- Temperature measurement unit: °C (Celsius), °F (Fahrenheit)
- Temperature measuring range: -40°C– 150°C (-40°F – 302°F)
- Temperature resolution: 0.1°C (-40°C–99.9°C), 1°C (100°C–150°C) 0.1°F (-40°F–99.9°F), 1°F (100°F–302°F)
- Temperature accuracy +/- 0.5°C +/- 0.9°F
- Weight 950 g

## 4-WAY PROFESSIONAL DIGITAL PRESSURE GAUGE UNIT KIT WITH VACUUM SENSOR, SUPPLIED IN A CARRYING CASE



- Pressure gauges class 1.0
- Pressure display psi, bar, MPa, kg/cm<sup>2</sup>, kPa
- Temperature display F or °C
- Vacuum display μ, mbar, kPa, Pa, torr, mTorr, mmHg
- Detection resolution 1 psi (.07 bar, .007 MPa, .07 kg/cm<sup>2</sup>)
- Detection accuracy ± 1 psi or 1% of reading (whichever is greater)
- Operating pressure from 0 to 725 psi (50 bar, 5 MPa, 52 kg/cm<sup>2</sup>)
- 1000 psi (70 bar, 7 MPa, 70 kg/cm<sup>2</sup>) test pressure (tolerable pressure with no internal damage)
- Refrigerant temperature range: -40 to 200 °F (-40 to 93 °C)
- Operating temperature 32 to 122°F (0 to 45°C)

## R410A - R32 UNIVERSAL DIGITAL TECH PLUS VACUUM KIT AND TROLLEYABLE CHARGING FOR GAS



- Vacuum pump BEV 70 l/min
- Professional two-way digital gauge unit
- 3 flexible pipes for gas R32 and R410A L 1500 mm
- 2 flexible pipes with cock for gas R32 and R410A L 3000 mm
- 2 thermocouples for pressure gauge unit
- Polyol ester flange oil ampoule 130 ml
- Akybenzene flange oil ampoule 130 ml
- Support for 1 kg R410A gas cylinder
- Support for 1 kg gas cylinder for R32
- Fitting for gas R410A 1/4" M SAE X 5/16" F SAE

## IDEAT VACUUM AND CHARGING KIT IN A CARRYING CASE



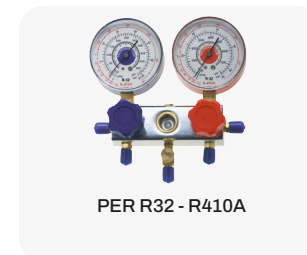
- Includes hand-held unit for operation management
- For use with 1, 2, 5, 10, 40 kg cylinders
- Can be fitted to any vacuum pump
- Can be used with all refrigerant gases
- Hose for condenser utility coupling 1/4" SAE and reduction 5/16" SAE
- Capillary tube F1/4" SAE X F1/4" SAE for vacuum pump bypass
- Reducer 5/16" or 1/4" SAE x 1/8 NPT m
- 2 Batteries
- Supplied in a carrying case with moulded sponge for transportation

## GRUPPI MANOMETRICI

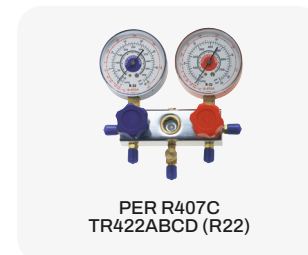
### A SECCO 2 VIE



CON PROTEZIONE IN GOMMA  
PER GAS R32 - R410A -  
TR422ABCD (R22)



PER R32 - R410A



PER R407C  
TR422ABCD (R22)

### A SECCO 1 VIA ALTA/BASSA PRESSIONE



PER GAS R407  
R410A - TR422ABCD (R22)



CON VALVOLA A SFERA  
E MANOMETRI CON  
PROTEZIONE PER GAS R410A

### A SECCO 4 VIE CON PROTEZIONE IN GOMMA

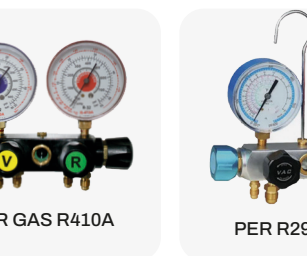


PER GAS R32  
R410A - TR422ABCD (R22),  
R134

### A SECCO 4 VIE



PER GAS R32 - R410A



PER GAS R410A

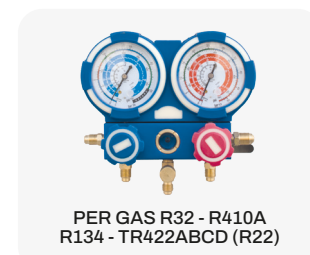


PER R290-600



PER R407C  
TR422ABCD (R22)

### A SECCO 2 VIE CON PROTEZIONE IN GOMMA



PER GAS R32 - R410A  
R134 - TR422ABCD (R22)

### A SECCO 2 VIE CON VALVOLE A SFERA E MANOMETRI



PER GAS R407 -  
R410A - TR422ABCD (R22)



IN BAGNO DI GLICERINA  
PER GAS R407 R410A -  
TR422ABCD (R22)

## PROFESSIONAL WIRELESS DIGITAL VACUUM GAUGE



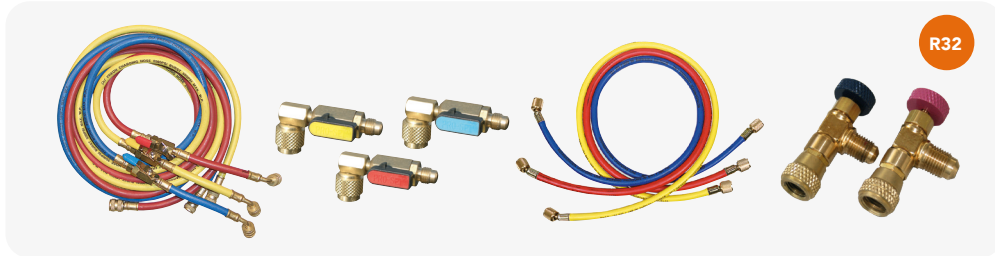
CE

## DIGITAL VACUUM GAUGE



CE

## FLEXIBLE HOSES AND ACCESSORIES



R32

## PROGRAMMABLE ELECTRONIC SCALE WITH SOLENOID VALVE AND REMOVABLE INDICATOR 100 KG SUPPLIED IN CARRYING CASE



CE

## WIRELESS DIGITAL SCALE 100 KG IN CARRYING CASE



APP

CE

## ELECTRONIC SCALE WITH REMOVABLE DIGITAL INDICATOR 100 KG SUPPLIED IN CARRYING CASE



CE

## ELECTRONIC SCALE 5 KG



CE

## TSCE-100 - ELECTRONIC LEAK DETECTOR



R32 CE

- 7-level alarm
- Running time approx. 30 hours
- Operating temperature 0°C to +52°C
- Immediate response time
- Reset time 2 s
- Final sensitivity less than 3 g/year for all halogenated refrigerants

## INFRA-RED THERMOMETER AND THERMOCOUPLE

The device includes two precision thermometers in a single product: an infrared thermometer and a thermocouple thermometer. It allows for both contact and non-contact temperature measurements.



CE

## TSCE-300 - ELECTRONIC LEAK DETECTOR TSCE-300 IN CARRYING CASE



R32 CE

- 6-level alarm with single colour
- Running time approx. 30 hours
- Sensing tip duration approx. 20 hours
- Operating temperature 0°C to +52°C
- Immediate response time
- Reset time 2 s
- Final sensitivity less than 3 g/year for all halogenated refrigerants

## GUN INFRA-RED THERMOMETER

A handy digital IR thermometer pistol featuring a laser targeting system for non-contact temperature measurement of materials.



CE

## TSTP1 - DIGITAL THERMOMETER WITH TIP

The digital thermometer is used to accurately measure the temperature of a specific component. This device features an automatic shut-off function.



CE

## TST1 - DIGITAL THERMOMETER WITH TEMPERATURE PROBE

Suitable for use in the industrial, electrical, and HVAC/R sectors, this device is capable of measuring temperature through contact using a type K probe



CE



## TSTU1 DIGITAL THERMOHYGROMETER

The thermo-hygrometer is a measuring instrument used to detect humidity levels and temperature in environments such as offices, rooms, greenhouses, and more.



## TSF1 DIGITAL SOUND LEVEL METER

Used to detect sound levels both in work environments and domestic settings.



## STRAIGHTENER FOR COPPER PIPES

NEW

From 1/8" to 3/4"



## TSAT1 DIGITAL THERMOANEMOMETER

The thermo-anemometer is used to measure air velocity and airflow volume in ventilation ducts. It can also measure temperature values.



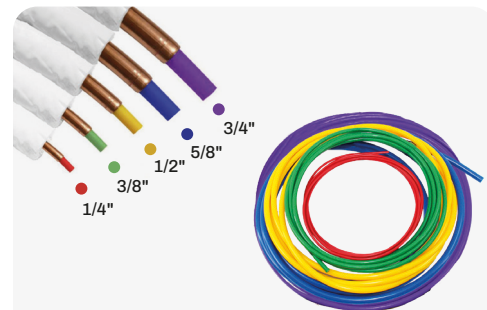
## TSRT1 VOLTAGE DETECTOR

By placing the probe on contacts or connectors, it detects the presence of voltage, indicated by the illumination of an LED light.



## BENDING KIT

NEW



## AUTOMATIC HOSE CLAMP WITH FRONT CLAMP IN INCHES AND MILLIMETRES AND LITHIUM BATTERY, SUPPLIED IN A CARRYING CASE

- Power supply 9.6 V DC
- Pipe flanging clamp for 1/4" 5/16" 3/8 "1/2" 5/8 "3/4" pipes
- Flange clamp for 6 mm - 9 mm - 10 mm - 12 mm - 16 mm - 19 mm tubes

### STANDARD ACCESSORIES

- 1 battery
- 1 battery charger
- 1 pipe cutter
- 1 reamer
- 2 flanging clamps



## AUTOMATIC HOSE CLAMP WITH JAWS IN INCHES AND LITHIUM BATTERY, SUPPLIED IN A CARRYING CASE

- Power supply 18 V DC
- Pipe flanging tool dimensions 122 x 67.5 x 224 mm
- For 1/4" - 3/8" - 1/2" - 5/8" - 3/4" pipes

### STANDARD ACCESSORIES

- 1 battery
- 1 battery charger
- 1 pipe cutter
- 1 pipe deburrer
- Stopper (5 pcs)



## HOSE CLAMP WITH CLUTCH FOR TUBES IN INCHES - MILLIMETRES AND PIPE CUTTER, SUPPLIED IN CARRYING CASE

- For 1/4" - 5/16" - 3/8" - 1/2" - 5/8" - 3/4" pipes
- For 6 - 9 - 10 - 12 - 16 - 19 pipes

### STANDARD ACCESSORIES

- 1 pipe cutter
- 1 pipe deburrer
- 2 pipe flanging clamps



## SYSTEM WASHING KIT FOR CLEANING WITH NITROGEN CYLINDER 5 LITRES

- 5-liter refillable nitrogen cylinder
- Pressure regulator for 5-liter cylinders, UNI 11144:2005 connection, W 21.7 x 1/14"
- Washing gun with reservoir
- 30 cm yellow hose, F1/4 SAE straight (180°) x F1/4 SAE elbow (90°)



## KIT 3 SWIVEL PIPE DEBURRERS WITH INTERCHANGEABLE HEAD

### THE KIT INCLUDES:

- Red reamer with inner pipe blade - 1 piece
- Yellow pipe deburrer with blade for pipe interiors/exterior - 1 pcs
- Blue pipe deburrer with blade for small diameter pipes and corners - 1 pcs





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**Tecnosystemi S.p.A. Società Benefit**

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