



VACUUM PUMPS,
MANIFOLDS, HAND TOOLS,
THERMOMETERS &
LEAK DETECTION



VALUE® Manifold 1-Way



The Value VMG-1, 1-Way manifold with 68mm diameter gauges.
Read: R410A/R407C/R404A/R134a in bar/psi.
Available in high and low side options.

Anti collision rubber boot and hanging hook.
No carry case or line included with single valve manifold.



CODE	MODEL
Q219	Value VMG-1-U-L Low Side Single Gauge Manifold
Q211	Value VMG-1-U-H High Side Single Gauge Manifold

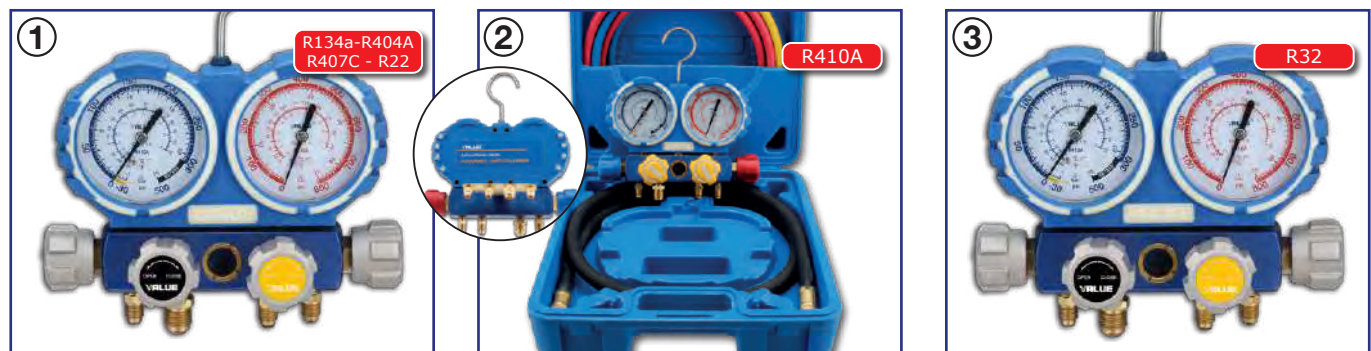
VALUE® Manifold Kits 2-Way

All Value 2 & 4-way manifolds include a set of R/Y/B hoses, carry case and one piece anti-collision boot to protect gauges.



CODE	DESCRIPTION	IMAGE NUMBER
Q218	Value VMG-2-R22. 2-Way Manifold Kit, 80mm Ø gauges. One Piece Anti Collision Boot. Reads: psi only / °C & °F. Sightglass. 3 x 48" R/Y/B hoses with 1/4" on all hose ends. Carry case included. Reads: R134A / R404A / R407C / R22	1
Q217	Value VMG-2-R410A. 2-Way Manifold Kit, 80mm Ø gauges. One Piece Anti Collision Boot. Reads: psi only / °C & °F. Sightglass. 1 x 48" Red & Blue hose 1/4" x 5/16" 1 x Yellow hose 1/4" x 1/4" Carry case included. Reads: R410A	2
QV1020	Value VMG-2-R32. 2-Way Manifold Kit, 80mm Ø gauges. One Piece Anti Collision Boot. Reads: psi only / °C & °F. Sightglass. 1 x 48" Red & Blue hose 1/4" x 5/16" 1 x Yellow hose 1/4" x 1/4". Carry case included. Reads: R32.	3
QV1025	Value VMG-2-R1234yf. 2-Way Manifold Kit, 80mm Ø gauges. One Piece Anti Collision Boot. Reads: psi only / °C & °F. Sightglass. 3 x 48" R/Y/B hoses with 1/4" on all hose ends. Carry case included. Reads: R1234yf	4

VALUE® Manifold Kits 4-Way



CODE	DESCRIPTION	IMAGE NUMBER
QV1033	Value VMG-4-R22. 4-Way Manifold Kit, 80mm Ø gauges. One Piece Anti Collision Boot. Reads: psi only / °C & °F. Sightglass. 3 x 4' R/Y/B hoses with 1/4" on all hose ends. Rear Hose Holder and Carry Case included. Reads: R134A / R404A / R407C / R22	1
QV1030	Value VMG-4-R410A. 4-Way Manifold Kit, 80mm Ø gauges. One Piece Anti Collision Boot. Reads: psi only / °C & °F. Sightglass. 2 x 4' Red & Blue Hoses 1/4" x 5/16", 1 x 4' Yellow Hose 1/4" to 1/4" Plus 1 x 4' 3/8" Vacuum Hose. Inc Hose Holder & Case. Reads: R410A	2
QV1021	Value VMG-4-R32. 4-Way Manifold Kit, 80mm Ø gauges. One Piece Anti Collision Boot. Reads: psi only / °C & °F. Sightglass. 2 x 4' Red & Blue Hoses 1/4" x 5/16", 1 x 4' Yellow Hose 1/4" to 1/4" Plus 1 x 3/8" Vacuum Hose. Inc Hose Holder & Case. Reads: R32.	3

Value VTB Integrated Tool Kits

VALUE[®]

We now offer 2 versions of the popular VTB Integrated Tool Kits from Value. Both kits contain the superb VFT808 Eccentric Flare Kit, 1 x VTC-19 and 1 x VTC-28B Pipe Cutters, 1 x Deburrer plus one set of 5ft long R/Y/B hoses.

All you have to do is choose the 2-way manifold you prefer in your kit. We still offer the original kit with the R410a manifold, but now you have the option of the multi refrigerant manifold which reads R22/R134a/R407C & R404A.



CODE	MODEL
Q047	VTB-5B-I-R410A Tool Kit with R410A Manifold
QV1044	VTB-5B-I-R22 Tool Kit with Multi Manifold, R22, R134a, R407C and R404A

NAVTEK Manifolds

NAVTEK

NAVTEK N1B9H One Way Manifold

The N1A9H single valve manifold features an impact resistant body and fold away hanging hook. Class 1.0 Gauges for accuracy. Suitable for BOTH high & low pressure sides of the system as gauge pressure reads -30 inHg to 800psi. Reads R134A - R404A - R410A - R32. Complete with 2 x 1.5m long hoses 1 x red & 1 x yellow 1/4" x 1/4" all stored neatly in carry case supplied.



CODE	DESCRIPTION
QN1004	NAVTEK N1A9H One Way Manifold with R/Y Lines & Case

NAVTEK N2B9H Two Way Manifold

The N2A9H two way manifold features an impact resistant body and fold away hanging hook. Class 1.0 Gauges for accuracy. Reads R134A - R404A - R410A - R32. Sightglass. Complete with 3 x 1.5m long hoses 1 x red, 1 x blue & 1 x yellow 1/4" x 1/4" all stored neatly in carry case supplied.



CODE	DESCRIPTION
QN1005	NAVTEK N2A9H Two Way Manifold with R/Y/B Lines & Case

NAVTEK N4A9H Four Way Manifold

The N4A9H four way manifold features an impact resistant body. Class 1.0 Gauges for accuracy. Foldaway Hanging Hook - Sightglass. Reads R134A - R404A - R410A - R32. Complete with 4 x 1.5m long hoses: 1 x red, 1 x blue, 1 x yellow all 1/4" x 1/4" & 1 x 3/8" x 3/8" black vacuum hose all stored neatly in carry case supplied.



CODE	DESCRIPTION
QN1006	NAVTEK N4A9H Four Way Manifold with R/Y/B/BK Lines & Case

NAVTEK

When it comes to evacuation, charging & recovery, speed is everything!

In fact the **NEW NAVTEK BIG BOY** vacuum hoses are a game changer, they improve vacuum efficiency when compared to using a 1/4" hose with core depressor by a whopping 68%. Check out page 279 to find out how they also help improve charging AND recovery times!



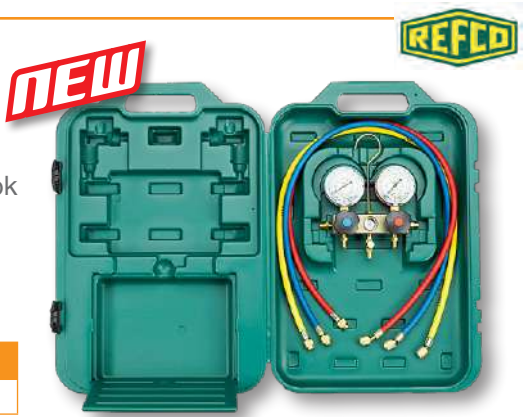
UP TO
68%
FASTER
VAC TIMES

Refco R290-R600-R600A 2 Way Manifold

The BM2-3-DS-R290 two-way manifold from Refco is designed specifically for R290/R600/R600A hydrocarbon refrigerants.

The manifold comes complete with bourdon type gauges, hanging hook and 3 charging hoses 1/4" SAE on both hose ends.

Hoses are colour-coded, blue, red and yellow, all 36 inches (90 cm) long, packs away neatly in a sturdy plastic carry case also included.



CODE	DESCRIPTION
Q3432	Refco BM2-3-DS-R290 2 Way Manifold for R290/R600/R600A

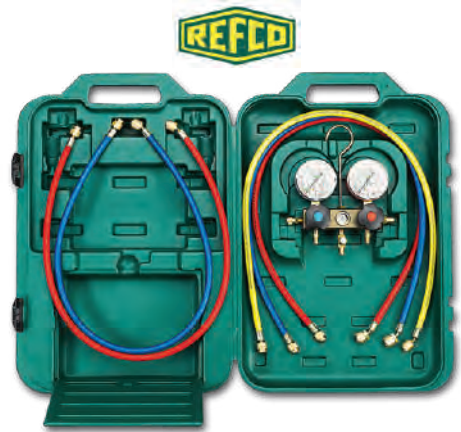
Refco Clim 2 Way Air Conditioning Manifold

The Refco BM2-6-DS-CLIM multi refrigerant 2-Way Manifold Kit, is a great favourite with engineers working on A/C equipment as it contains both 1/4" and 5/16" hoses making it perfect for R410A and R32 systems.

Kit includes 2 Way Manifold, 3 x 36" R/Y/B hoses with 1/4" on all hose ends and 2 x 1/4" x 5/16" hoses.

60mm Diameter Gauges.

Reads: R22 / R407C / R410A in PSI / Bar / °C.



CODE	DESCRIPTION
Q344	Refco BM2-3-DS-CLIM Multi Refrigerant 2 Way Manifold Kit with 5 hoses, 3 x 1/4" x 1/4" and 2 x 1/4" x 5/16"

Titan® 4-Way Test & Charge Manifold

With NO sightglass and high and low side gauges that read 800psi. The Titan 4-Way Manifold from Yellow Jacket was designed to test and charge equipment.

3/8" Vacuum port for use with larger hose to cut evacuation time by up to 33% (all other fittings are 1/4"). (Manifold only- no lines - no case).



CODE	DESCRIPTION
Q1098	Yellow Jacket 49972 Titan 4-Way Test & Charge Manifold

Mastercool 2 Way Manifold for R448A/R449A R452A and R455A C/W 150cm R/Y/B Hoses

Mastercool 2 Way Manifold reads R448A/R449A/R452A/R455A.

Includes R/Y/B Hose Set 150cm long 1/4" x 1/4" SAE both ends.

80mm^ø Gauges. Solid extruded aluminium body.

Free-floating piston type valves reduce o-ring wear.

Extra access port for vacuum line.

Silicone dampened gauges smooth out needle movement.

Gauges can be easily recalibrated in the field to maintain accuracy.

Extra large sight glass for visual refrigerant check.

Large easy-to-grip knobs.



CODE	DESCRIPTION
Q200	Mastercool 2 Way Manifold for R448A/R449A/R452A/R455A



Everything at a glance. In your hand.

Introducing the brand-new refrigeration manifold range from Testo

- ✓ IP54 rating for outdoor operation
- ✓ 100m range with Bluetooth wireless probes
- ✓ Suitable for use with A2L refrigerants
- ✓ Graphic display for pressure test and vacuum with new testo 552i smart probe
- ✓ Simple visualisation and documentation with free smart app

www.testo.co.uk

testo 550i App Operated 2-Way Digital Manifold

Say hello to the testo 550i the smallest digital manifold on the market. Operated via your smart phone via the FREE testo SMART app. Featuring Bluetooth 5 Technology with a 150m range, IP54 rated and compatible with testo smart probes, this really is the manifold for those looking to move away from analogue gauges in a cost effective way.

The 550i comes in 2 options:

550i App Operated 2 Way Manifold only (no case or lines). (Vacuum Measurement in conjunction with optional 552i).

Testo 550i Smart Set - Includes Manifold, 2 x 115i Wireless Temp. Probes & Case) (Vacuum measurement in conjunction with optional 552i).

CODE	DESCRIPTION
QT060	Testo 550i App Operated 2 Way Manifold Only
QT061	Testo 550i Smart Set - Includes Manifold, 2 x 115i Wireless Temp Probes & Case)



testo 550s 2-Way Digital Manifold

As part of the new testo 55x range the new testo 550s manifold now features a wider Bluetooth range up to 150m. Larger graphic display. Increased protection class now IP54. And auto updates of refrigerants via the app.

The 550s comes in 3 kit options:

550s basic kit with 2 x plug in temp clamp probes, case & batteries. (Vacuum measurement in conjunction with optional 552i)

550s Smart Kit includes 2 x 115i Wireless Smart Probe temp clamps, case & batteries. (Vacuum measurement in conjunction with optional 552i)

550s Smart Kit with Hoses includes 2 x 115i Wireless Smart Probe temp clamps, 3 x hoses, case & batteries. (Vacuum measurement in conjunction with optional 552i)

CODE	DESCRIPTION
QT062	Testo 550s Basic Kit (M/Fold, 2 x Cable Temp Probes & Case)
QT063	Testo 550s Smart Kit (Manifold, 2 x 115i Wireless Temp Probes & Case)
QT064	Testo 550s Smart Kit with Hoses (Manifold, 2 x 115i Wireless Temp Probes, 3 x Hoses & Case)



testo 557s 4-Way Digital Manifold

As part of the new testo 55x range the new testo 550s manifold now features a wider Bluetooth range up to 150m. Larger graphic display. Increased protection class now IP54. And auto updates of refrigerants via the app.

The 557s comes in 2 options:

Testo 557s Smart Vacuum Kit (Smart Digital manifold, 2 x 115i Wireless Temp Probes, 1 x 552i Wireless Vacuum Probe & Case).

Testo 557s Smart Vacuum Kit with Hoses (Smart Digital manifold, 2 x Wireless Temp Probes, 1 x Wireless Vacuum Probe, Set of 4 Filling hoses (3 x 1/4 x 1/4 & 1 x 3/8 x 3/8 Vac Hose) and Case.

CODE	DESCRIPTION
QT065	Testo 557s Smart Vacuum Kit (Smart Digital manifold, 2 x Wireless Temp Probes, 1 x Wireless Vacuum Probe & Case)
QT066	Testo 557s Smart Vacuum Kit (Smart Digital manifold, 2 x Wireless Temp Probes, 1 x Wireless Vacuum Probe, Filling Hose Set x 4 and Case.



testo Refrigeration Smart Probes

Get even **Smarter**, with the Testo **Smart Probe Range**

CODE	DESCRIPTION
QT042	testo 115i Clamp Thermometer Smart Probe (0560 2115 02)
QT043	testo 549i High Pressure Smart Probe (0560 2549 02)
QT020	testo 605i Thermohygrometer Smart Probe Measures Air Temp & Relative Humidity. (0560 2605 02)
QT018	testo 805i Infrared Thermometer Smart Probe (0560 1805)
QT019	testo 410i Vane Anemometer Smart Probe (0560 1410)

Go to page 288 to view the new 552i Vacuum Smartprobe and page 293 for the new range of testo 915i Smartprobe thermometers using K Type probes.



testo 2nd Generation Refrigeration Smart Probe Set

The new model features updated 549i refrigerant pressure probes with 45° angled connector to allow for easier access to test ports. Both the 549i and the 115i supplied in the new version of the testo refrigeration smart probe set, feature the new Bluetooth module to allow 100m operating range.

Plus a new on/off switch to secure against accidental switch-on. (All other features remain the same as the original model).

CODE	DESCRIPTION
QT041	Testo Smart Probe Refrigeration Set 2 Gen (0563 0002 10)



testo manifold accessories

testo Magnetic Manifold Strap • Fits new 55x range of manifolds only - 550i, 550s & 557s • Strong magnet and sturdy strap • One-off assembly for flexible use of the magnet or hook • Simple click system enables quick switch in everyday situations.

testo Temperature Clamp Kit • 2 x NTC temperature clamps fits all models of testo manifolds.

CODE	DESCRIPTION
QT068	testo Magnetic Manifold Strap (0564 1001)
QT069	testo Temperature Clamp Kit (NTC x 2) (0613 5507)



FSW 2 Way Smart Manifold Block

Due to the popularity of testo smart probes FSW has created the SmartBlock.

Designed specifically for the Testo 549i Smart Probes, the SmartBlock gives you the versatility to charge, pressure test and evacuate the system whilst maintaining the benefits that smart probes offer.

CODE	DESCRIPTION
QV1150	FSW 2 Way Smart Manifold Block complete with Hanging Hook



Smartprobe Access Valve Kit

The 2pc Smartprobe Access Valve Kit adds extra versatility to your smart probes by making it possible to charge and evacuate a system whilst the testo smart probes are connected. Kit includes 1/4" Access Tee with Knurled Nut and a 5/16" FFL x 1/4" MFL Adaptor to access R410A/R32 systems.

CODE	DESCRIPTION
QT100	Smartprobe Access Valve Kit fits 1/4" and 5/16"



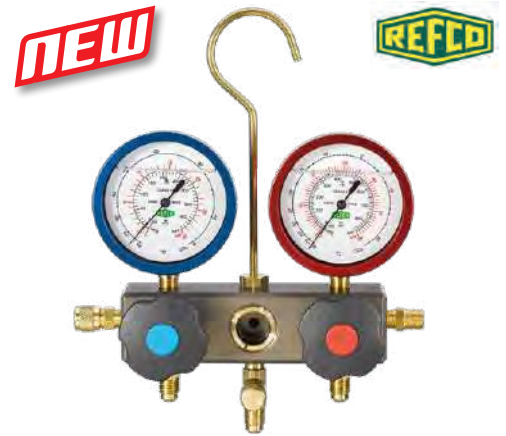
Image above shows the 2 parts joined together to access R410A/R32 Systems

CO₂ Equipment

Refco 2 Way CO₂ Subcritical Manifold

M2-DELUXE 2 Way Manifold with 63mm Ø oil filled bellow type gauges made from anodized aluminium. Zero point adjustable. Two-piece, O-ring seal piston style valve. Comes with 3 charging lines 1/4" SAE blue, red and yellow, length 36 inches (90 cm), in a sturdy plastic case.

Manifold for the application with CO₂ in subcritical cascade systems up to maximum allowed operating pressure of 60 bar/870 psi.



CODE	DESCRIPTION
Q3430	Refco M2-3-DELUXE-DS-CO2 - 2 Way Manifold

Refco 2 Way CO₂ Transcritical Manifold

2-way-manifold with 80mm Ø oil filled bellow type gauges, 3 charging hoses 1/4" SAE, 72 inches (180 cm), 80/160 bar, (1160/2320 psi), packed in a sturdy plastic case.

This manifold is suitable for transcritical applications. Metal sealed needle valves are being used to handle the high pressures. This allows for a very precise adjustability.



CODE	DESCRIPTION
Q3431	Refco M2-3-DELUXE-DS-R744-TC - 2 Way Manifold

CO₂ Charging Hose Kit

CO₂ Charging Hose Kit inc BSP to SAE flare connector - 1/4" & 3/8"

CODE	DESCRIPTION
Q347	CO ₂ Charging Hose Kit inc BSP to SAE flare connector - 1/4" & 3/8"



D-TEK Stratus & D-Tek 3 CO₂ Leak Detectors

The new D-TEK Stratus is the next big step in the world of refrigerant leak detection. Detects all CFCs, HCFCs, HFCs, and HFOs. Also Detects CO₂ with purchase of additional CO₂ sensor. Designed for ergonomic comfort with rugged carrying case and comes with a two-year replacement warranty. See page 318 for full details.

Please remember to order the additional CO₂ sensor

The all new, D-Tek 3 with redesigned infrared sensor. Longest sensor life in the industry. Easy field replacement. New lithium ion battery. Long life (~10 hours) low, medium, high, and super sensitivity settings.

Automatic and manual zero modes. Rugged carrying case included. Detects all CFCs, HCFCs, HFCs, HFOs and blends (including A2Ls) Detects CO₂ with optional CO₂ sensor.

"Please remember to order the additional CO₂ sensor"



CODE	DESCRIPTION
Q3442	D-Tek-Stratus Leak Detector Kit (724-202-G11)
Q3444	D-TEK 3 Refrigerant Leak Detector (721-202-G21)
Q3443	CO ₂ Sensor for D-Tek-Stratus and D-Tek 3 (704-701-G2)

OFN Equipment

50 bar OFN Regulator

Quality 50 bar OFN regulator from Gas Arc. All brass construction. Inlet and outlet pressure gauges to EN 562 for accurate gas pressure control. Encapsulated valve 1/4" SAE flare outlet. Can be used with all refrigerant systems up to 50 bar test pressure, in accordance with BS EN 378. 0-70 bar working pressure gauge scale to allow for accurate delivery pressure setting.



CODE	DESCRIPTION
Q840	GA-750 50 bar OFN Regulator
Q297	Replacement 'Pressure' Gauge for 50 bar OFN Regulator
Q296	Replacement 'Contents' Gauge for 50 bar OFN Regulator

Nitro-Vue™ OFN Purge Braze Tool

Set your OFN Reg to 60PSI, connect your NV-1 and control the flow of OFN into the system via the NV-1 valve. The easy to see orange float ball visually confirms the nitrogen is flowing and allows the technician to first "PURGE" the copper lines at 20+ SCFH and then reduce the flow to "BRAZE" at 3-5 SCFH during the brazing process thus conserves its consumption and reduces operating cost.



CODE	DESCRIPTION
Q845	Nitro-Vue NV-1 Nitrogen Purge Braze tool

DP-1 OFN Purge Braze Tool

The Nitrogen Purge Tool is a quick and easy way to purge copper pipes with nitrogen. Then, with a turn of the dial, quickly switch to a very low flow of nitrogen to correctly braze the copper. It has a durable aluminium design so you can just throw it into your tool bag when you are done.



CODE	DESCRIPTION
Q544	DP-1 Nitrogen Purge Braze Tool

JAVAC PVR Nitrogen Testing Kit

2-in-1 Nitrogen pressure and vacuum testing manifold. The PVR is designed for use with oxygen free nitrogen (OFN) only. The PVR speeds up the process of pressure and vacuum testing. Designed to handle high pressures involved in pressure testing R410A systems. The PVR has a built in vent valve for safe de-pressurisation of systems. A 3/8" vacuum hose adaptor is included for larger systems DO NOT use for refrigerant charging.



CODE	DESCRIPTION
Q309	JAVAC PVR Nitrogen Pressure & vacuum Testing Manifold.

Nitrogen Purge - Braze - Clean & Blow Kit

The Nitrogen Purge Kit does it all, use for pressure testing or purging lines during brazing, you can even use it for blowing out condensate drains with the 1/2 & 3/4 inch rubber bung adaptors included, there is even a cleaning blowgun attachment for blowing out condensers. So if you are looking for more than just a nitrogen regulator then this is the kit for you.



CODE	DESCRIPTION
M411	Uniweld Nitrogen Purging Kit

Yellow Jacket Single Charging Hose

1/4" PLUS II™ Hoses are rated for 4000 psi (276 bar) minimum burst and 800 psi (55 bar) Maximum Working Pressure. All hose and ball valve ends use black rubber gaskets.



1/4" x 1/4" SAE x 3ft Long, Single Hose

CODE	MODEL	COLOUR
Q1090	21236	Blue
Q1092	21636	Red
Q1088	21036	Yellow



1/4" x 1/4" SAE x 6ft Long, Single Hose

CODE	MODEL	COLOUR
Q1091	21272	Blue
Q1093	21672	Red
Q1089	21072	Yellow



1/4" x 5/16" SAE x 3ft Long, Single Hose

CODE	MODEL	COLOUR
Q1084	21423	Blue
Q1085	21463	Red



1/4" x 5/16" SAE x 6ft Long, Single Hose

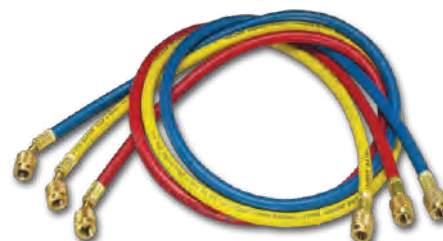
CODE	MODEL	COLOUR
Q1087	21426	Blue
Q1086	21466	Red

Yellow Jacket Hose Sets (3 Pack)

YELLOW JACKET PLUS II™ hoses have double barrier protection for CFC, HCFC and HFC refrigerants.

1/4" x 1/4" or 1/4" x 5/16" SAE, Pack of 3 Hoses

CODE	MODEL	DESCRIPTION
Q1035	21983	3 PK Red-Yellow-Blue 1/4" x 1/4" Hose Set (3ft)
Q1040	21986	3 PK Red-Yellow-Blue 1/4" x 1/4" Hose Set (6ft)
Q1046	21486	3 PK Red-Yellow-Blue Hose Set (6ft) Red & Blue Hose 1/4" x 5/16" Yellow hose 1/4" x 1/4"



1/4" x 1/4" or 1/4" x 5/16" SAE, Pack of 3 Hoses with Ball Valves

CODE	MODEL	DESCRIPTION
Q1096	29985	3 PK Red-Yellow-Blue 1/4" x 1/4" Hose Set (5ft) (Complete with compact ball valves)
Q1025	29986	3 PK Red-Yellow-Blue 1/4" x 1/4" Hose Set (6ft) (Complete with compact ball valves)
Q1026	29485	3 PK Red-Yellow-Blue Hose Set (5ft) Red & Blue Hose 1/4" x 5/16" Yellow hose 1/4" x 1/4" (Complete with compact ball valves)



Yellow Jacket 3/8 Vacuum Hose Single

PLUS II™ features a larger volume 3/8" hose for fast, high vacuum or charging. 600 psi (41 bar) maximum working pressure.

3/8" x 3/8" SAE x 6ft Long, Single Vacuum Hose

CODE	MODEL	COLOUR
Q1032	18172	Yellow



NAVTEK Charging Hose Set (3 PK)



NAVTEK Charging Hose Set (Pack of 3).
1500mm (5ft) long red - yellow - blue.
1/4" x 1/4" SAE fittings with 45° angle to one end.
High Quality Lines - 800 psi MWP, 4000 psi burst pressure.



1/4" x 1/4" SAE x 5ft Long 3 Pack Hose set

CODE	MODEL	DESCRIPTION
QN1015	NRHH53	Hose Set (3PK) R/Y/B 1.5m Long (5ft) 1/4" x 1/4"

NAVTEK Ball Valve Charging Hose Set (3 PK)



NAVTEK Charging Hose Set (Pack of 3).
1500mm (5ft) long red - yellow - blue.
1/4" x 1/4" SAE fittings with 45° angled ball valves to one end.
High Quality Lines - 800 psi MWP, 4000 psi burst pressure.



1/4" x 1/4" SAE x 5ft Long 3 Pack Hose set with Ball Valves

CODE	MODEL	COLOUR
QN1016	NRHH53C	Hose Set (3PK) R/Y/B 1.5m Long (5ft) C/W Ball Valves

Mastercool Charging Hose Sets (3 PK)



Set of 3 x 3ft x 1/4" SAE Hoses

CODE	MODEL	COLOUR
Q374	Set 36-4	Red-Yellow-Blue

Set of 3 x 6ft x 1/4" SAE Hoses

CODE	MODEL	COLOUR
Q375	Set 72-4	Red-Yellow-Blue



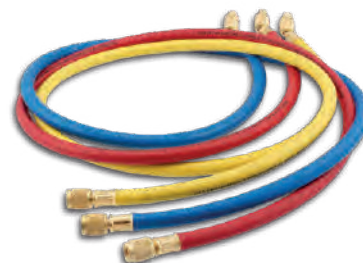
Value® Single Charging Hose



Individual charging hoses from Value.
1200mm (4ft) long 1/4" x 1/4" flare ends.
Choose from Red, Yellow or Blue. 800 psi MWP.

1/4" x 1/4" SAE x 4ft Long, Single Hose

CODE	MODEL	COLOUR
Q223	VRP-48-B	Blue
Q222	VRP-48-R	Red
Q224	VRP-48-Y	Yellow



NAVTEK Big Boy Hi-FLOW 1/2" Diameter Evacuation Hoses



When it comes to evacuation, charging & recovery, speed is everything.

In fact the NEW NAVTEK BIG BOY Vacuum Hoses are a game changer, they improve vacuum efficiency when compared to using a 1/4" hose with core depressor by a whopping 68%*.

Fast and Efficient Evacuation 1/2" bore hose diameter for fast evacuation:

- 4 - layer construction for low permeation
- 3200 psi burst pressure, 640 psi working pressure
- Vacuum rated to 20 microns



CODE	MODEL	DESCRIPTION
QN1011	NHB1	Big Boy 1/2" Bore Vacuum Hose 1/4" x 3/8" x 1.8m L
QN1012	NHB2	Big Boy 1/2" Bore Vacuum Hose 1/4" x 1/2" x 1.8m L
QN1013	NHB3	Big Boy 1/2" Bore Vacuum Hose 1/2" x 1/2" x 152mm L
M009	GBC38	3/8" Brass Cylinder Adaptor (Increases flow when charging or recovering refrigerant)

TECH TIPS

- Larger bore hoses significantly improve evacuation times
- Avoid using 1/4" hoses they only extract 0.7cfm regardless of the size of vacuum pump used!
- Always remove the valve cores you'll be amazed how much quicker, recovery, evacuation and charging will be
- Avoid using manifolds for evacuation as they restrict flow, attach vacuum hose from unit direct to pump whenever possible.
- For more tech tips & information on evacuation visit www.fsw.uk.com/downloads

Refco Single Charging Hose

Standard 870 psi working pressure, 3600 psi burst pressure making the REFCO charging hoses good for all refrigerants including R410A.

1/4" x 1/4" SAE x 3ft Long, Single Hose

CODE	MODEL	COLOUR
Q751	9881253	Blue
Q752	9881262	Red
Q753	9881271	Yellow



1/4" x 1/4" SAE x 6ft Long, Single Hose

CODE	MODEL	COLOUR
Q754	9881250	Blue
Q755	9881259	Red
Q756	9881268	Yellow



1/4" x 5/16" SAE x 3ft Long, Single Hose

CODE	MODEL	COLOUR
Q757	9884076	Blue
Q758	9884077	Red



1/4" x 5/16" SAE x 5ft Long, Single Hose

CODE	MODEL	COLOUR
Q759	9884621	Blue
Q760	9884622	Red



3/8" x 3/8" SAE x 6ft Long Yellow Vacuum Hose

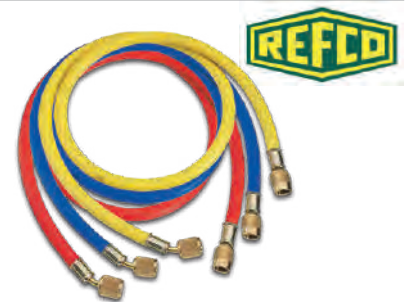
CODE	MODEL	COLOUR
Q305	9881312	Yellow 3/8" Vacuum Hose



Refco Charging Hose Set

1/4" x 1/4" SAE x 3ft Long Hose Set (Pack 3)

CODE	MODEL	COLOUR
Q761	9881278	Red-Yellow-Blue



1/4" x 1/4" SAE x 6ft Long Hose Set (Pack 3)

CODE	MODEL	COLOUR
Q762	9881275	Red-Yellow-Blue

Refco Charging Hose Set with Ball Valves

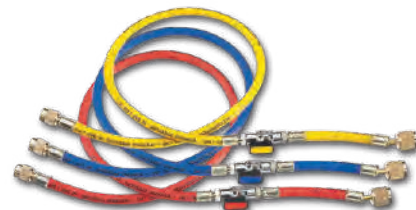
1/4" x 1/4" SAE x 6ft Hose Set (Pack 3) with Ball Valves

CODE	MODEL	COLOUR
Q748	4493631	Red-Yellow-Blue



1/4" x 1/4" SAE x 6ft Hose Set (Pack 3) with Extended Ball Valves

CODE	MODEL	COLOUR
Q763	4675521	Red-Yellow-Blue



1/4" x 5/16" SAE x 5ft Hose Set (Pack 3) with Extended Ball Valves

CODE	MODEL	COLOUR
Q749	4666522	Red-Yellow-Blue

Refco Extra Long Single Charging Hose

Handy Extra Long 10ft charging hoses supplied in singles. Red, yellow or blue. 1/4" SAE fittings both ends

1/4" SAE x 10ft Long, Single Refco Hose

CODE	MODEL	COLOUR
Q371	120-4-B	Blue
Q372	120-4-R	Red
Q373	120-4-Y	Yellow



Heavy Duty Lines C/W Ball Valve

Heavy duty replacement charging lines available in 3 lengths for the 1/4" hoses and one length for 3/8" vacuum hose.

1/4" x 3^{FT}

CODE	MODEL	DESCRIPTION
Q382	HD-36-4-B-V	Black Hose with Blue End
Q383	HD-36-4-R-V	Black Hose with Red End
Q384	HD-36-4-Y-V	Black Hose with Yellow End

1/4" x 5^{ft}

CODE	MODEL	DESCRIPTION
Q388	HD-60-4-B-V	Black Hose with Blue End
Q389	HD-60-4-R-V	Black Hose with Red End
Q390	HD-60-4-Y-V	Black Hose with Yellow End

1/4" x 6^{ft}

CODE	MODEL	DESCRIPTION
Q391	HD-72-4-B-V	Black Hose with Blue End
Q392	HD-72-4-R-V	Black Hose with Red End
Q393	HD-72-4-Y-V	Black Hose with Yellow End

3/8" x 3^{ft} Vacuum Hose

CODE	MODEL	DESCRIPTION
Q385	HD-36-6-B-V	Black Hose with Yellow End



NAVTEK NVR1 Core Removal Tool

When it comes to evacuation, charging and recovery, speed is everything. For quicker recovery, vacuum and recharge times get into the habit of removing valve cores using the NAVTEK NVR1 core removal tool. Vacuum rated due to it's double o-ring design.

Fits 1/4" and 5/16" Flare Fittings.

Use with the NAVTEK Big Boy Hi-Flow Hoses for even quicker results.

CODE	MODEL	DESCRIPTION
QN1014	NVR1	NAVTEK 1/4" & 5/16" Core Removal Tool



2 Sizes in 1 Tool

Yellow Jacket Core Removal Tool

This versatile tool for the low or hi-side of a system does four jobs: 1/4" side port to attach vacuum gauge right at the system for greater accuracy or to add refrigerants. Lets you evacuate and charge through an unrestricted line for increased speed and higher vacuum. Core replacement & core removal allows recovery unit to work at maximum efficiency, speeding the recovery process. Double o-ring Vacuum rated.

CODE	MODEL	DESCRIPTION
Q1044	18975	1/4" Core Removal Tool
Q1116	18985	5/16" Core Removal Tool



JAVAC EDGE SAFE SEAL CHARGING HOSES

72" hose (183cm), Suitable for standard refrigerants.

Patented Safe Seal technology: 'One-Touch' design allows you to screw the fitting on to the system before starting refrigerant flow, avoiding refrigerant loss and risk of 'refrigerant burn'. Then simply turn the knob to start/stop flow.

The safety swivel sleeve allows free rotational movement of the hose without the fitting coming loose being put under unnecessary strain and preventing unwanted leaks.

JAV-1071 1/4" Safe Seal, Charging Hose Set. MWP: 600/3000 PSI (41 bar)
Bursting pressure of 3000psi (207 bar)

JAV-1072 1/4" x 5/16" Safe Seal, Charging Hose Set. MWP: 600/3000PSI (41 bar)
Bursting pressure of 3000psi (207 bar)

CODE	MODEL	DESCRIPTION
QJ001	JAV-1071	Safe Seal 3pc Hose Set 1/4" x 1/4" x 72" Long
QJ002	JAV-1072	Safe Seal 3pc Hose Set 1/4" x 5/16" x 72" Long
QJ003	JAV-1275	Replacement Hose Gaskets - Manifold End 1/4 (Bag 10)
QJ004	JAV-1276	Replacement Hose Gaskets - Service End 5/16 + 1/4 (Bag 10)



Replacement Manifold Gauges



CODE	DESCRIPTION	IMAGE NUMBER
QV1055	Value 80mm Ø Low Side Gauge. Reads: R410A Pressure: -1 to 20 Bar / PSI / °C	1
QV1054	Value 80mm Ø High Side Gauge. Reads: R410A Pressure: 0 to 55 Bar / PSI / °C	2
QV1059	Value 80mm Ø Low Side Gauge. Reads: R134a/R404A/R407C/R22 Pressure: 30 inHg to 145 PSI / °C	3
QV1058	Value 80mm Ø High Side Gauge. Reads: R134a/R404A/R407C/R22 Pressure: 0 to 450 PSI / °C	4
QV1061	Value 80mm Ø Low Side Gauge. Reads: R32 Pressure: -1 to 20 Bar / PSI / °C	5
QV1060	Value 80mm Ø High Side Gauge. Reads: R32 Pressure: 0 to 55 Bar / PSI / °C	6

Value® Manifold Spare Parts



Manifolds Knobs for 2 & 4 Way Manifolds

CODE	DESCRIPTION
QV1050	Red High Side Manifold Knob fits all Value 2 & 4 Way Manifolds
QV1051	Blue Low Side Manifold Knob fits all Value 2 & 4 Way Manifolds
QV1053	Yellow Manifold Knob fits all Value 4 Way Manifolds



Brass Valve Assembly (Complete) 2 & 4 Way Manifolds

CODE	DESCRIPTION
QV1066	Complete Brass Valve Stem Assembly suits ALL 2 Way Manifolds, but fits <u>side only</u> of All 4 Way Manifolds
QV1067	Complete Brass Valve Stem Assembly for front of 4 Way Manifolds only



Replacement Hose Gaskets (supplied singly)

CODE	DESCRIPTION
QV1056	Black Rubber Hose Seal for either end of Value R/Y/B Hoses
QV1057	White Teflon Hose Seal for either end of Value R/Y/B Hoses



Refco® Manifold Spare Parts



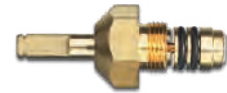
Manifold knobs for 2 & 4 Way Manifolds

CODE	DESCRIPTION
Q3400	Pair of Red & Blue, Refco High & Low Side manifolds knobs



Brass Valve Assembly (Complete) 2 & 4 Way Manifolds

CODE	DESCRIPTION
Q3405	1 x Complete Brass Valve Stem Assembly for 2 & 4 Way Refco Manifolds



Replacement Hose Gaskets

CODE	DESCRIPTION
Q357	Pack of 10, White PTFE Refco Hose Gaskets



ITE Hose Rubber & Depressor Set



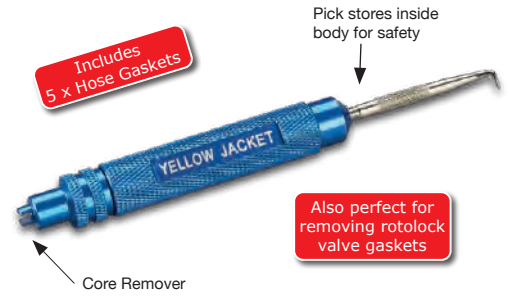
Set of 6 universal replacement standard hose rubbers that fit most makes of 1/4" hoses and 3 x replacement brass schrader core depressors.

CODE	DESCRIPTION
Q378	6 Gaskets/3 Lifters fits most standard hoses



Yellow Jacket Gasket Removal Tool

Easily remove worn gaskets from hoses and replace with new gaskets. Sharp, angled pick is long enough to pull the gasket from deep inside the hose. Notch on the opposite end of the pick for placing the depressor inside the hose. Pick stores inside case along with five CH20 Hose gaskets (included) for protection and safety.



CODE	DESCRIPTION
Q1112	Yellow Jacket (19047) Gasket Removal Tool

Refrigerant Control Valves

Easy to use refrigerant control valve allows you to connect and remove your hoses avoiding refrigerant loss and risk of refrigerant burn.

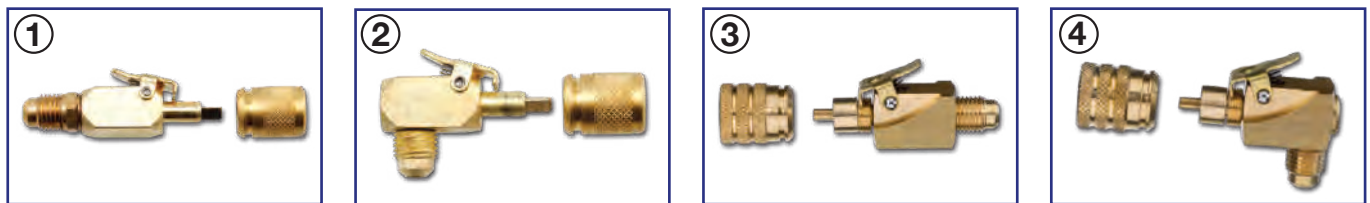
Turn control valve clockwise to depress and open the schrader core. Turn the valve anti-clockwise to close.



CODE	DESCRIPTION
Q130	Refrigerant Control Valve 1/4" Female x 1/4" Male
Q131	Refrigerant Control Valve 5/16" Female to 1/4" Male
Q132	Refrigerant Control Valve 5/16" Female x 5/16" Male

Imperial® & Refco Quick Couplers Hose Shut Off Adapters

1/4" or 5/16" Options available in Straight or 90° Elbow Versions from Imperial and Refco



CODE	DESCRIPTION	IMAGE NUMBER
Q5200	Imperial 16-C Straight Kwik Coupler 1/4" Male x 1/4" Female	1
Q5202	Imperial 17-C Elbow Kwik Coupler 1/4" Male x 1/4" Female	2
Q518	Imperial 26-C Straight Kwik Coupler 5/16" Male x 5/16" Female	1
Q5206	Imperial 27-C Elbow Kwik Coupler 5/16" Male x 5/16" Female	2
Q386	Refco Straight Quick Coupler 1/4" Male x 5/16" Female	3
Q387	Refco Elbow Quick Coupler 1/4" Male x 5/16" Female	4

Hose Adaptors



CODE	DESCRIPTION	IMAGE NUMBER
Q380	Robinair "Quick Seal" automatically shuts off the charging hose when you disconnect it from the system, so any refrigerant left in the hose is not released. This also prevents "finger burn" and adds an extra measure of safety. 1/4" MFL to 1/4" FFL.	1
Q381	R410A Flare Adaptor Converts 1/4" Hose to 5/16" FFL for use with R410A Systems	2
Q377	R410A Flare Adapter 1/4" FFL to 5/16" MFL	3

Gauge Line Ball Valve Set

Set of 3 x 1/4" MFL to 1/4" FFL red, yellow and blue 1/4" Turn Ball Valves. Perfect for converting any standard 1/4" hose into a shut off hose.

CODE	DESCRIPTION
Q339	Set of 3 R/Y/B - 1/4" Turn Ball Valves (1/4 MFL x 1/4 FFL)





CODE	DESCRIPTION	IMAGE NUMBER
Q503	Value VRR12L, 3/4 HP Single Cylinder Recovery Machine. 230V. Recovers 15kg Vapour & 111kgs of Liquid per/hr. Recovers all commonly used CFC, HFC & HCFC refrigerants	1
Q517	Value VRR12L, 3/4 HP Single Cylinder Recovery Machine. 110V. Recovers 15kg Vapour & 111kgs of Liquid per/hr. Recovers all commonly used CFC, HFC & HCFC refrigerants	1
Q516	Value VRR24L, 1 HP Twin Cylinder Recovery Machine. 230V. Recovers 24kg Vapour & 222kgs of Liquid per/hr. Recovers all commonly used CFC, HFC & HCFC refrigerants	2
Q285	Value VRR24L, 1 HP Twin Cylinder Recovery Machine. 110V. Recovers 24kg Vapour & 222kgs of Liquid per/hr. Recovers all commonly used CFC, HFC & HCFC refrigerants	2
QV1111	Value VRR24M-R32, 1 HP Twin Cylinder Recovery Machine. 230V. Recovers 30kg Vapour & 231kgs of Liquid per/hr. Recovers all commonly used CFC, HFC & HCFC refrigerants, Plus it's A2L Compatible for Mildly Flammable Refrigerants like R32 & R1324yf	3
QV1110	Value VRR24M-R32, 1 HP Twin Cylinder Recovery Machine. 110V. Recovers 30kg Vapour & 231kgs of Liquid per/hr. Recovers all commonly used CFC, HFC & HCFC refrigerants, Plus it's A2L Compatible for Mildly Flammable Refrigerants like R32 & R1324yf	3

Promax® BOSCH Recovery Machines — PROMAX® (H) BOSCH



CODE	DESCRIPTION	IMAGE NUMBER
Q507	Promax RG3000, Recovery Machine. 240V. Recovers 8kg Vapour & 58kgs of Liquid per/hr. Recovers all commonly used CFC, HFC & HCFC refrigerants*	1
Q506	Promax RG3000, Recovery Machine. 110V. Recovers 8kg Vapour & 58kgs of Liquid per/hr. Recovers all commonly used CFC, HFC & HCFC refrigerants*	1
Q500	Promax MiniMax, Recovery Machine. 240V. Recovers 9kg Vapour & 90kgs of Liquid per/hr. Recovers all commonly used CFC, HFC & HCFC refrigerants*	2
Q501	Promax MiniMax, Recovery Machine. 110V. Recovers 9kg Vapour & 90kgs of Liquid per/hr. Recovers all commonly used CFC, HFC & HCFC refrigerants*	2
Q1498	Bosch RG-4.0A, Single Cylinder Recovery Machine. 240V. Recovers 10.7kg Vapour & 165 kgs of Liquid per/hr. Recovers all commonly used CFC, HFC & HCFC refrigerants, Plus it's A2L and A3 compatible, so suitable for hydrocarbons	3
Q1499	Bosch RG-4.0B, Single Cylinder Recovery Machine. 110V. Recovers 10.7kg Vapour & 165 kgs of Liquid per/hr. Recovers all commonly used CFC, HFC & HCFC refrigerants, Plus it's A2L and A3 compatible, so suitable for hydrocarbons	3

NAVTEK NRDD Brushless Recovery Machine

The NRDD recovery unit features a Brushless DC Motor making it lightweight and much more efficient, a large backlit display, twin cylinder design with 2-row oversized condenser, oil free compressor and self-purging functionality. The NRDD recovery unit is suitable for all commonly used refrigerants including A2L's making it the ideal recovery unit. Recovers 21kg Vapour, 350kg of Liquid & 570kg per/hr in push/pull mode. Not suitable for hydrocarbons.

CODE	DESCRIPTION
QN1009	NAVTEK NRDD Recovery Machine 230V 50/60Hz
QN1010	NAVTEK NRDD Recovery Machine 110V 50Hz



NAVTEK NRDC4M Brushless Recovery Machine

The NRDD is quick but the NRDC4M is even quicker, in fact up to 40% quicker due to its two twin cylinder compressors. So if you are looking for a recovery machine to get the job done then the NAVTEK NRDC4M is the machine for you.

Recovers 33kg vapour, 420kg of liquid & 480kg per/hr in push/pull mode. Not suitable for hydrocarbons.

CODE	DESCRIPTION
QN1024	NAVTEK NRDC4M Recovery Machine 230V 50/60Hz
QN1025	NAVTEK NRDC4M Recovery Machine 110V 50/60Hz



JAVAC XTR-PRO Dual Voltage Recovery Machine

The Javac XTR PRO-DV features DUAL VOLTAGE TECHNOLOGY and enables a quick and easy switch between 110v to 240v on site using separate mains leads. 240 Volt mains lead included, (110V lead optional extra) and you can't blow it up if you select the wrong voltage. Recovers - 15 kg/hr Vapour, 90 kg/hr Liquid. New X - Connect Technology Trip protects the machine should you select the incorrect voltage. Not suitable for hydrocarbons.

CODE	DESCRIPTION
Q1506	Javac XTR-PRO Dual Voltage Recovery Machine (110/240V)



NAVTEK NRS3i01 Wireless Charging Scales

The NAVTEK NRS3i01 Bluetooth Electronic Refrigerant Scale is designed and reinforced with advanced technology, providing more precise and portable refrigerant charging technology.

- Bluetooth Scale with Remote Keypad - 10m Bluetooth Range
- Buzzer sounds within 50 grams of setting to alert operator
- Keypad stored in pocket at back of scale base
- Large rubber gripped platform designed to hold both small or large cylinders safely in position during charging or recovery procedures
- 120kg Max Capacity.

CODE	DESCRIPTION
QN1050	NAVTEK NRS3i01 Wireless Refrigerant Scales 120kg Max Cap
QN1055	NAVTEK NRS3i01 Replacement Keypad (Only)



ITE WS-150 Electronic Charging Scales

Battery and 240V mains operated electronic refrigerant charging scales.

CODE	DESCRIPTION
Q286	ITE WS-150 Electronic Charging Scales, 150kg Max Capacity.

R600/R290 Charging Scales with Stand

Accurate to 1g with a 5000g capacity. Comes with R600 Cylinder base and a valve.

CODE	DESCRIPTION
Q294	R600/R290 Charging Scale with cylinder stand/valve assembly



NAVTEK Vacuum Pumps



NP2DLM Cordless Vacuum Pumps

Featuring Cordless DC Technology, this lightweight, highly efficient vacuum pump is perfect for service engineers. With a high-performance 18V 5Ah Li-ion battery that provides higher capacity and longer running time. Weighs only 3.8kg with battery. Comes complete with mains charger, 1 x 18V/5Ah battery, carry case and vacuum pump oil.

BREAKFREE
CORDLESS SERIES



CODE	DESCRIPTION
QN1003	NAVTEK Model NP2DLM 2cfm Cordless Vacuum Pump
QN1017	Spare or Replacement 5Ah 18V Lithium-Ion Battery
QN1018	Replacement Mains Battery Charger for NP2 & 4DLM Pumps

NP4DLM Cordless Vacuum Pump

Featuring Cordless DC Technology, this lightweight, highly efficient vacuum pump. With a high-performance 18V 9Ah Li-ion battery that provides higher capacity and longer running time. Weighs only 6.98kg with battery. Comes complete with mains charger, 1 x 18V/9Ah battery, carry case and vacuum pump oil. Suitable for light commercial work.

BREAKFREE
CORDLESS SERIES



CODE	DESCRIPTION
QN1023	NAVTEK Model NP4DLM 4cfm Cordless Vacuum Pump
QN1026	Spare or Replacement 9Ah 18V Lithium-Ion Battery
QN1018	Replacement Mains Battery Charger for NP2 & 4DLM Pumps

NP4DP & NP7DP Dual Voltage Vac-Pump

Available in 4 or 7 cfm models these NAVTEK dual voltage vacuum pumps feature dual stage for high ultimate vacuum down to 15 microns. Integrated cylinder structure coupled with forced oil circulation assure its high performance and reliability. Built-in hook makes it easier to carry to a high workplace.



CODE	DESCRIPTION
QN1007	NAVTEK NP4DP 4 cfm Dual Voltage Vacuum Pump
QN1008	NAVTEK NP7DP 7 cfm Dual Voltage Vacuum Pump

NRP6DV & NRP8DV Brushless Vacuum Pumps

The light-weight, inverter-driven, brushless dual stage vacuum pump delivers high-speed evacuation along with high ultimate vacuum of 15 microns. Built-in solenoid valve prevents oil back flow and seals the system to preserve the vacuum during power outage or accidental disconnect. Embedded vacuum gauge. Available in either 110 or 240V options.



CODE	DESCRIPTION
QN1019	NRP6DV 6 cfm Brushless Inverter Vacuum Pump 220V/50Hz
QN1020	NRP6DV 6 cfm Brushless Inverter Vacuum Pump 110V/50Hz
QN1021	NRP8DV 8 cfm Brushless Inverter Vacuum Pump 220V/50Hz
QN1022	NRP8DV 8 cfm Brushless Inverter Vacuum Pump 110V/50Hz

NP12DM Brushless Vacuum Pump

THE BRAND NEW – NAVTEK NP12DM VACUUM PUMP DELIVERS SPEED, ROBUSTNESS & POWER

With industrial grade technology, this high capacity 12cfm vacuum pump is designed for evacuation of large AC & R Systems. The dual stage rotary vane pump and inverter motor lead to faster evacuation and deeper vacuum. Integrated pump structure and built-in oil back-flow prevention assure superior performance and reliability. The NP12DM is an efficient and lightweight pump with superb performance levels.



CODE	DESCRIPTION
QN1001	NP12DM 12 cfm Brushless Inverter Vacuum Pump 220V/50Hz
QN1002	NP12DM 12 cfm Brushless Inverter Vacuum Pump 110V/50Hz

Value® Vacuum Pumps

VALUE®

VE245ND 5 cfm Vacuum Pump

5 cfm (142 Litres/Min) Dual Voltage Vacuum Pump
Dual Stage with 1/4" & 3/8" M/FL Inlet ports.
Supplied with both 110V & 230V kettle lead style mains leads with fitted plugs.

5 CFM
Dual Voltage



CODE	DESCRIPTION
Q239	Value VE-245ND 5 cfm Dual Voltage Vacuum Pump

VE260ND 6 cfm Vacuum Pump

6 cfm (198 Litres/Min) Dual Voltage Vacuum Pump
Dual Stage Vacuum Pump with 1/4" & 3/8" M/FL Inlet ports.
Supplied with both 110V & 230V kettle lead style mains leads with fitted plugs.

6 CFM
Dual Voltage



CODE	DESCRIPTION
Q240	Value VE-260ND 6 cfm Dual Voltage Vacuum Pump

V-i260Y-R32 A2L Ready 5 cfm Vacuum Pump

5 cfm 230V Only, (170 Litres/Min) Dual Stage Vacuum Pump.
1/4" M/FL Inlet port only. Non-return valve stops vacuum pump oil being sucked into system if you lose mains power. Fitted with easy to read horizontal vacuum gauge.
Supplied with 230V kettle lead style mains plug.

5 CFM
230V Only



CODE	DESCRIPTION
QV1101	Value V-i260Y-R32 5 cfm Vacuum Pump (240V Only)

VE2100ND 10 cfm Vacuum Pump

10 cfm Dual Voltage, (340 Litres/Min)
Dual Stage Vacuum Pump. 1/4" & 3/8" M/FL Inlet ports.
Supplied with both 110V & 230V kettle lead style mains leads with fitted plugs.

10 CFM
Dual Voltage



CODE	DESCRIPTION
Q246	Value VE-2100ND 10 cfm Dual Voltage Vacuum Pump

Robinair® CoolTech Vacuum Pumps

Two Stage Design - second stage starts pumping at a lower pressure to pull a deeper ultimate vacuum. Offset Rotary Vanes - proven design creates the deep vacuum conditions needed for a thorough evacuation
Gas Ballast feature - helps keep the pump oil clean by reducing condensation of moisture
Iso-Valve™ - isolates pump from the system with just a 1/4 turn, making it simple to measure rate of rise.
Integral Check Valve - prevents pump oil from being sucked into the system if a power loss occurs.

6 CFM
Dual Voltage



CODE	MODEL	CFM	SUPPLY
Q248	15601	6.0	110/230V

Factory wired for 240V, can be rewired inside electrical box to 110V.
See "L Section" for 110V Plug (Q161)

When it comes to evacuation, charging & recovery, speed is everything!

In fact the **NEW NAVTEK BIG BOY** vacuum hoses are a game changer, they improve vacuum efficiency when compared to using a 1/4" hose with core depressor by a whopping 68%. Check out page 277 to find out how they also help improve charging AND recovery times!



UP TO
68%
FASTER
VAC TIMES

Vacuum Gauges

testo 552i Wireless Vacuum Probe

Fast and easy vacuum measurement including graphical display of value: in the app or on the display of your digital testo 550s or testo 557s manifold. Robust housing with IP54 for maximum reliability in daily use. Integrated 45° angle: Easy installation on any service port connects automatically to the testo smart app and manifolds via Bluetooth - 130m range. One app for everything: Display, calculation, customer data and documentation.



CODE	DESCRIPTION
QT067	testo 552i Wireless Vacuum Probe

testo 552 Digital Bluetooth Vacuum Gauge

Testo 552 Bluetooth Digital Vacuum Gauge for evacuation of refrigeration systems and heat pumps. Now with Bluetooth connection for wireless monitoring of measurement results via the Testo Smart probes app. Reads vacuum in 8 units: mmHg, Torr, mbar, hPa, micron, inH2O & Pa. Sensor max overload 6 bar/87 psi. Back lit display.



CODE	DESCRIPTION
QT002	testo 552 Bluetooth Digital Vacuum Gauge

JAVAC Absolute Analogue Torr Gauge

The ever popular Javac CR2-40 Absolute Torr Gauge. Easy to read 100mm Diameter Analogue Gauge. 1/4" M/FL Connection. Range: 0 - 40 Torr & 0 - 50 mbar. Stainless steel construction.



CODE	DESCRIPTION
Q276	Javac CR2-40 Absolute Analogue Torr Gauge

NAVTEK Vacuum Gauge Coupler

Looking for a better way to connect your vacuum gauge to your core tool or access port? The vacuum gauge coupler is a great solution. Constructed of brass, this easy to use connector has a schrader core depressor at one end and an open port opposite.

The angled fitting makes vacuum gauge connection quick and easy and the perfect way to check if your vacuum pump will pull below 100 microns or less, before evacuating a system.



CODE	DESCRIPTION
Q192	Vacuum Gauge Coupler (angled) 1/4" x 1/4"

CPS® Vacuum Pump Anti-Siphon Valve Kit

The CPS anti-siphon valve is an essential accessory to any vacuum pump. The anti-siphon valve prevents the mineral oil from the vac pump being sucked into the system due to mains failure. Mixing of vacuum pump oil and compressor oil can cause premature failure in the A/C or refrigeration system. Fits all makes of vacuum pumps.

The kit includes the anti-siphon valve body with a 3/8" female knurl nut to connect onto your vacuum pump and 3 x flare to UNF adaptors for the outlet side of the valve giving you the option of a 1/4", 3/8" or 1/2" MFL connection.



CODE	DESCRIPTION
Q206	CPS Anti-Siphon Valve Kit

Exhaust Filter Cap

CODE	DESCRIPTION
QV1098	Exhaust Filter Cap for Value Vacuum Pumps Models VE245ND
QV1099	Exhaust Filter Cap for Value Vacuum Pumps Models VE260ND/ Vi260SV

Oil Fill Cap

CODE	DESCRIPTION
QV1097	Oil Fill Cap for Value Vacuum Pumps (Suits All Models)

Brass Inlet Ports

CODE	DESCRIPTION
QV1159	Brass Inlet Port for VE245ND
QV1160	Brass Inlet Port for VE260ND & VE2100ND

Oil Housing

CODE	DESCRIPTION
QV1157	Oil Housing with gasket to suit VE245ND

Oil Housing

CODE	DESCRIPTION
QV1158	Oil Housing with gasket to suit Models VE260ND / 2100ND / V-1260-R32

Torr Gauge and Solenoid Valve

CODE	DESCRIPTION
QV1095	Torr Gauge for Value Vi-1260-SV Vacuum Pump
QV1096	Torr Gauge and Solenoid Valve assembly for Value Vi-1260-SV Vacuum Pump

Value® Recovery Machine Spare Parts

HP Switch

CODE	DESCRIPTION
QV1047	Manual Reset HP Switch suits VRR12L Machines

Valve Assembly (6pc)

CODE	DESCRIPTION
QV1046	Valve Assembly Kit 6pc - suits all VRR12/24L & VRR24M models.

Valve Plate (Piston) and Cylinder Head

CODE	SIZE
QV1048	Valve Plate (Piston) - suits all VRR12/24L & VRR24M models.
QV1049	Cylinder Head suits all VRR12/24L & VRR24M models.

Control Knob

CODE	DESCRIPTION
QV1056	Control Knob suits VRR12L VRR24L & VRR24M models.

Vacuum Pump Oil

Chillair Universal Vacuum pump oil from **FSW** is suitable for all makes of AC&R vacuum pumps.

CODE	SIZE
Q202	1 Litre
Q203	5 Litre



Test Meters

Value® VMC-1 Digital Clamp Meter

Value® VMC-1 Digital Clamp Meter with built in non contact voltage testing. Measures AC/DC voltage, AC current, resistance, diode and reads °C/°F with included K probe and carry case. Auto shut-off, low battery alarm and 250 volt overload protection. Max measurements: Volts 600, AC current 400 amps, Temp -40°C to +1000°C.



Quick and easy voltage testing with built-in non-contact voltage test function.

CODE	DESCRIPTION
Q221	Value VMC-1 Digital Clamp Meter with Temperature

Tenmars® TM-16E Clamp Meter

Tenmars TM-16E, 600V Digital Clamp Meter. Data Hold. AC volts, DC volts, AC current, resistance, continuity, diode ranges. Auto-ranging. Maximum conductor size 30mm. Low battery indication. Continuity buzzer. Auto power off.



CODE	DESCRIPTION
Q256	Tenmars TM-16E Digital Clamp Meter

testo 770-1 Digital TRMS Clamp Meter

The testo 770-1 clamp meter is the standard version in the 770 range. Perfect for the majority of daily measuring tasks, including starting current, auto AC/DC for current and voltage, large two-line display. TRMS - true root mean square measurement. Capacitance range 0.001 µF to 100 µF.



CODE	DESCRIPTION
QT005	Testo 770-1 Digital TRMS Clamp Meter

testo 770-3 Digital TRMS Clamp Meter

In addition to the above features of the 770-1, the testo 770-3 model offers a performance measurement function and can be connected to the testo Smart probes app by Bluetooth. Another huge strength of the 770-3 version is it has the facility to measure Power/Wattage, and auto-calculates this. Capacitance range: 0.001 µF to 60,000 µF.



CODE	DESCRIPTION
QT025	Testo 770-3 Digital Clamp Meter with Bluetooth & µF

Value® VDM-151 Digital Multimeter

Value® VDM-151 Digital Multi Meter. Measures 30 different ranges, has overload protection. Great for testing capacitors up to 200 µF. Measures temperature -40°C to +1000°C test leads, K probe & 9V battery included.



CODE	DESCRIPTION
Q220	Value VDM-151 Digital Multimeter with Temp and µF

testo 760 Multimeters

The testo 760-1 model is the standard version, ideal for the majority of daily electrical measuring tasks. The testo 760-3 is the model with the highest specification and, in addition to the features of the 760-1, it has a voltage range of up to 1,000 V, along with higher measuring ranges for frequency and capacitance.



CODE	DESCRIPTION
QT006	Testo 760-1 Digital Multimeter (0 to 100µF)
QT026	Testo 760-3 TRMS Digital Multimeter

Test Meters

testo 410-1 Compact Vane Anemometer

The testo 410-1 vane anemometer measures air velocity and air temperature. Carry out quick spot measurements at ventilation grilles. The anemometer is also ideal for use outdoors. It displays the units m/s, km/h, fpm, mph and kts, and also calculates wind chill and the Beaufort wind force.

CODE	DESCRIPTION
QT050	Testo 410-1 Compact Vane Anemometer (0560 4101)



testo 410i Smart Probe Vane Anemometer

Compact testo 410i vane anemometer with smartphone operation measures the volume flow, air velocity and temperature at air outlets quickly and reliably. The FREE testo Smart probes app download enables readings to be viewed conveniently and offers intelligent additional functions.

CODE	DESCRIPTION
QT019	Testo 410i Smartprobe Vane Anemometer (0560 1410)



testo 750 Voltage Testers

Testo 750-1 voltage tester including batteries, measuring tip protector and measuring tip caps.

Testo 750-3 as above but with additional features inc: RC Trigger function. LCD screen to show current reading plus torch and non contact voltage testing function.

CODE	DESCRIPTION
QT030	Testo 750-1 Voltage Tester
QT031	Testo 750-3 Voltage Tester with LCD Screen



Non Contact Voltage Testers

We offer 2 options for non contact voltage testers. The Original Sagab Volt-Stick yellow and the Testo 745. The Sagab Volt Stick is designed to quickly detect 220-230V. The Testo 745 voltage range is wider at 12 to 1000 V AC. Visual and acoustic signal plus built in light.

CODE	DESCRIPTION
Q745	Sagab Volt Stick 230V N/Contact Voltage Tester 220/230V AC
QT032	Testo 745 Non-Contact Voltage Tester 12 to 1000 V AC



Supco Capacitor Tester

Supco MFD-10 Capacitor Tester is a perfect addition to any engineers tool-kit. Accuracy $\pm 5\%$ Range 0.01 to 9,999 μF . Soft carrying case included. Test clip storage within case. Leads clip to capacitor terminals. LED display. One button operation. Operates on 3 'AAA' batteries (not included).

CODE	DESCRIPTION
Q251	Supco MFD-10 Capacitor Tester



EDC Inverter Phase Checker

It shows whether the inverter and also the serial communication are functioning correctly. Suitable for all sizes of air conditioner shows any fault on the inverter, identifies connection errors in the data circuit, rapid visual display. Optional crocodile clamp test leads available.

CODE	DESCRIPTION
Q198	EDC Inverter Phase Checker
Q194	Inverter Crocodile Clamp Test Leads



Thermometers

PROEX Digital Thermometer

Proex RT-905A hand held & pocket digital thermometer. Read out in Celsius or Fahrenheit. Range: -50/+150°C and -58/+302°F Cable 1000mm long. Stainless steel probe 100mm long.



CODE	DESCRIPTION
Q875	Proex RT-905A Digital Hand Held & Pocket Thermometer

ETI HVAC Thermometer Kit-2

HVAC Kit-2 features the ETI Therna 231-022 differential thermometer with 1 x penetration probe, 1 x air probe and 2 x clamp probes. FREE traceable certificate of calibration. All supplied in a neat foam filled ABS carry case.



CODE	DESCRIPTION
Q417	HVAC Thermometer Kit-2 with Probes & Case

ETI TN-2 Infrared Pocket Thermometer

Pocket infrared thermometer with max/min, display hold and lock functions LED spot alignment. Wide temperature range. Lock function for continuous measurement. Max/min memory function. Range: -49.9 to 349.9°C.



CODE	DESCRIPTION
N357	ETI 814-060 Infrared Pocket Thermometer

Comark KM340 Thermometer Kit

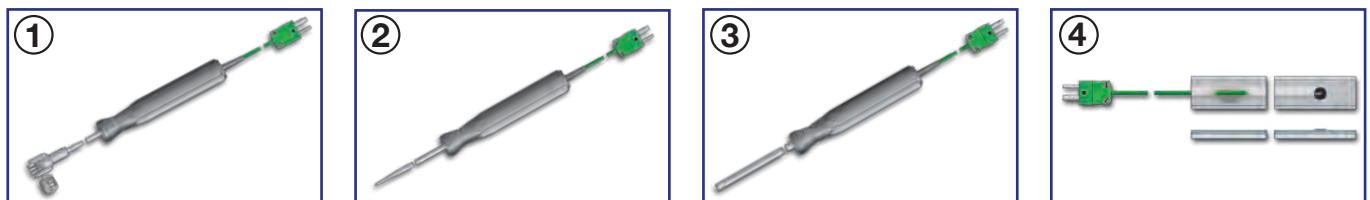
The KM340 Industrial Thermometer with twin inputs, comes complete with 1 x K-type surface probe and 1 x K-Type wire probe and a soft style zipped carry case. Displays temperature in °C or °F maximum temperature memory, protective slip-on boot with desk stand. (Calibration Certificate NOT included).



CODE	DESCRIPTION
N330	Comark KM340 Thermometer Kit with 2 Probes and Carry Case

Replacement K-Type ETI Thermometer Probes

We stock a range of the most popular replacement K-Type thermocouple probes used by the RAC Industry. Many other types are available to order if required. Please contact your local FSW for details.



CODE	DESCRIPTION	IMAGE NUMBER
N325	ETI 123-000 K-Type Surface Probe	1
N326	ETI 123-160 K-Type Penetration Probe	2
V910	ETI 123-300 K-Type Air Probe	3
N329	ETI 133-080 K-Type Velcro Pipe Probe	4

testo 915i Smartprobe Thermometers

The new 915i K Type Probe thermometers add even more versatility to the smartprobe range. The 915i is available in kit form containing 1 x 915i Smartprobe, 1 x Air, 1 x Penetration & 1 x Surface Probe in a zip case.

Individual 915i smart probes with the K Type probe included. Choose from an air, penetration, surface or flexible wire probe.

CODE	DESCRIPTION
QT074	testo 915i Temperature kit with 3 x Type K temperature probes 1 x Air, 1 x Penetration, 1 x Surface. (0563 5915)
QT070	testo 915i with Type K Penetration Probe (1563 1915)
QT071	testo 915i with Type K Surface Probe (0563 2915)
QT072	testo 915i with Type K Air Temperature Probe (0563 3915)
QT073	testo 915i with K Type Flexible Temperature Probe (0563 4915)



testo 830-T2 Infrared Thermometer

Twin laser points for fast and accurate non-contact measurement of surface temperature. High resolution processor for utmost accuracy (resolution 0.1 °C) 12:1 optics for precise measurements even at medium distances. External K Type probe connection. External probe or carry case is not included.

testo 830-T2 SET Infrared Thermometer

As above, but set includes leather case and surface probe.

CODE	DESCRIPTION
QT037	testo 830-T2 Infrared Thermometer (0560 8312)
QT058	testo 830-T2 SET Infrared Thermometer (0563 8312)



testo 830-T4 Infrared Thermometer

Fast and accurate non-contact measurement of surface temperature. High resolution processor for utmost accuracy (resolution 0.1 °C) 30:1 optics enable great accuracy at great distances on small objects being measured (1 m distance = 36 mm measuring spot diameter). External K Type probe connection (probe not included).

CODE	DESCRIPTION
QT052	testo 830-T4 Infrared Thermometer (0560 8134)



testo 805i Smart Probe Infrared Thermometer

The testo 805i infrared thermometer, in conjunction with a smartphone or tablet, functions as a compact IR thermometer for wall temperatures, as well as fuse and component temperatures in air conditioning systems. The measuring point is marked clearly with a laser circle made up of eight dots - so you always know precisely where to measure. More smart probes on page 275.

CODE	DESCRIPTION
QT018	testo 805i Smart Probe Infrared Thermometer (0560 1805)



Digital Fridge & Freezer Thermometers

ETI features 1m PVC lead for the appliance temperature, and an internal sensor for the room temperature. Remote probe has suction pad or mounting bracket supplied. Foot-stand for shelf mounting.

The Proex has 3m long probe. Surface mounting. Solar Powered with battery back-up.

CODE	DESCRIPTION
Q416	ETI Digital Fridge Freezer Alarm Thermometer (-50/+70.C)
Q872	Proex DT-1001-S Solar Powered Thermometer (-50/+70.C)



Flaring Tools



NAVTEK NEF6LM Cordless Flaring Tool

A welcome departure from creating flares manually, the NEF6LM Cordless Power Flare yields accurate, hassle-free flares in a fraction of the time compared to traditional flaring methods. Weighing only 1.3 kgs the new Cordless Power Flaring Tool comes equipped with a high-performance rechargeable lithium-ion battery which makes over 100 flares per charge.

The NEF6LM Cordless Power Flare also allows one-button, one-hand operation. In addition, it features a battery power indicator and a flashlight. It comes in a sturdy blow-molded case with five commonly sized flare dies for 1/4", 3/8", 1/2", 5/8" & 3/4". One battery, a charger, and a NFG1 flare gauge tool.



BREAKFREE
CORDLESS SERIES

NEW

CODE	DESCRIPTION
QN1052	NAVTEK Cordless Flaring Tool

VALUE® VFT-808 Eccentric Flare tool

The Value® VFT-808 not only looks quality with its superb satin finish, it also makes quality flares.

Its large ergonomic handle and torque release makes for effortless flaring. Flares from 3/16" to 3/4". Blow moulded carry case included.



CODE	DESCRIPTION
Q044	Value® Eccentric Flare Tool Kit

Imperial 275-FS Flare-Swage Tool Kit

Imperial® Flaring and Swage Tool Kit: Flares 1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8 and 3/4 and Swages 3/16, 1/4, 5/16, 3/8, 1/2, 5/8 and 3/4 tube. Converting between the two is quick and easy with its interchangeable, hardened steel chrome finished, swivel-type swaging adapters and flaring cone. Due to its compact size, it is ideal for use in close quarters. The 275-FS is also self centering and features a slip-on forged steel yoke. Supplied in sturdy tool case.



CODE	DESCRIPTION
Q020	Imperial 275-FS Flare Swage Tool Kit



ITE Eccentric Flare Kit (Full Version)

ITE Full Eccentric Flare Tool Kit includes the Flare kit and drill adaptor and TC-274 pipe cutter (1/8" to 1-1/8"). Inner outer reamer, 127-RW ratchet wrench, stepped swage punch for 1/4, 5/16, 3/8, 1/2 and 5/8 and 1/4, 3/8, 1/2 and 5/8 bending spring.

CODE	DESCRIPTION
Q023	ITE FTE-800-F Full Eccentric Flare Tool Kit



Bending Springs

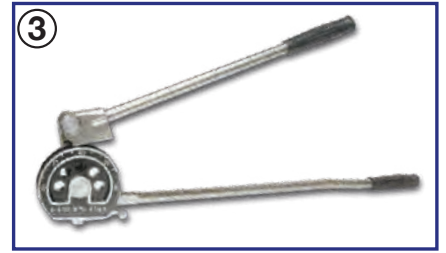
Selection of individual sized bending springs from 1/4 to 7/8 for bending soft copper tube or a multi-pack of seven different sized bending springs: 1/4, 5/16, 3/8 - 7/16 - 1/2 - 5/8 - 3/4.

CODE	MODEL	SIZE
Q035	102-F-04	1/4
Q036	102-F-06	3/8
Q037	102-F-08	1/2
Q038	102-F-10	5/8
Q039	102-F-12	3/4
Q040	102-F-14	7/8
Q042	9881635	1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4



Tube Benders

Selection of tube benders from triple head mini benders, lever benders, to gear and hydraulic tube benders.



CODE	MODEL	DESCRIPTION	IMAGE NUMBER
Q070	CH 666	Proex Mini Aluminium Triple Head Lever Benders for 1/4, 5/16 and 3/8 O.D. Tube	1
Q075	BABY-S	Scols "Baby S" Tube Bender for 3/8, 1/2 and 5/8	2
Q080	364 FHA-08	Imperial® Lever Type Tube Bender for 1/2 O.D. Tube	3
Q081	364 FHA-10	Imperial® Lever Type Tube Bender for 5/8 O.D. Tube	3
Q082	364 FHA-12	Imperial® Lever Type Tube Bender for 3/4 O.D. Tube	3
Q083	364 FHA-14	Imperial® Lever Type Tube Bender for 7/8 O.D. Tube	3
Q091	9.0614	Rothenberger Multi Bender for 1/2 and 5/8, 3/4 and 7/8 O.D. Tube	4
Q086	270-F-18	Imperial® Gear Benders for 1-1/8 O.D. Tube	5
Q088	HB-85	Hydraulic Tube Bender for Soft Copper Tube 1/4, 5/16, 3/8, 1/2, 5/8, 3/4 and 7/8 O.D. Tube.	6

Javac Tube Straightening Tools

The world's first efficient hand held straightening tool which easily and accurately straightens tubing, piping from coils and cables.

This revolutionary and affordable pipe straightening tool will straighten all types of light wall coiled tubing such as copper, aluminium, stainless steel, brass plus various others. Imperial sizes 1/4", 3/8", 1/2" & 5/8".

CODE	MODEL	SIZE
Q048	JAV-TST14	1/4 Tube Straightening Tool
Q049	JAV-TST38	3/8 Tube Straightening Tool
Q052	JAV-TST12	1/2 Tube Straightening Tool
Q053	JAV-TST58	5/8 Tube Straightening Tool



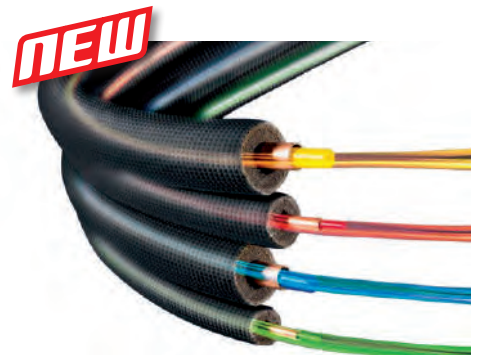
Easybend Line Set Benders

Pack of 4 internal pipe benders called line set benders designed for use with pre-insulated copper pipe (pair coil) see page 6 for details.

Set includes 4 benders: 1 x 1/4" 1 x 3/8" 1 x 1/2" and 1 x 5/8".

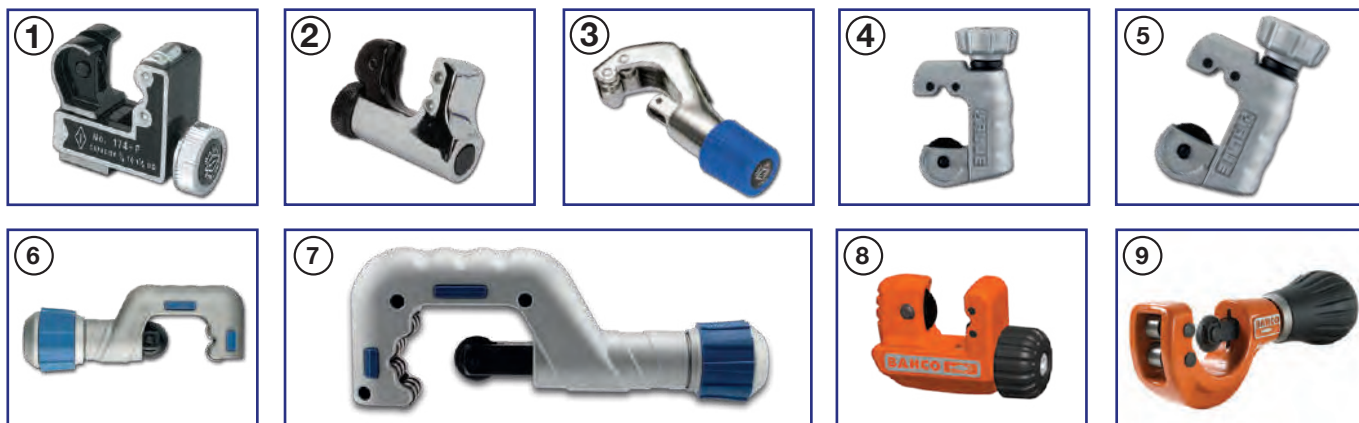
Manufactured in solid plastic these internal are re-usable. Designed for use with Pair coil but will work with any soft copper coil pipe.

CODE	DESCRIPTION
Q076	4 Pack of Easy Bend Line Set Benders 1/4", 3/8", 1/2," 5/8"



Tube Cutters

Superb Range of Tube Cutters from **Imperial®**, **Bahco®** and **Value® Tools**, available from stock.



CODE	MODEL	DESCRIPTION	IMAGE NUMBER
Q002	174-F	Imperial® 3/8 to 1-1/8 Compact Tube Cutter includes Spare Cutting Wheel	1
Q005	TC-1050	The Original IMP™ 1/8 to 5/8 Compact Tube Cutter from Imperial	2
Q007	TC-1000	Imperial® 1/8 to 1-1/8 Tube Cutter with Fold Away Reamer and Spare Blade	3
Q008	312-FC	Imperial® 1/8 to 1-5/8 Tube Cutter with Fold Away Reamer and Spare Blade	3
Q092	VTC-19	Value® 1/8 to 3/4 Mini Tube Cutters	4
Q093	VTC-28	Value® 1/8 to 1-1/8 Compact Tube Cutters	5
Q095	VTC-32	Value® 1/8 to 1-1/4 Tube Cutters	6
Q096	VTC-42	Value® 1/8 to 1-5/8 Tube Cutters	6
QV1001	VTC-70	Value® 1/8 to 2-5/8 Large Tube Cutters	7
QB1000	301-22	Bahco® 1/4 to 7/8 Mini Tube Cutters	8
QB1001	302-35	Bahco® 1/4 to 1-3/8 Tube Cutters includes Spare Cutting Wheel	9

Tube Cutter Spare Parts

Imperial® Tube Cutter Spare Parts

CODE	MODEL	TO SUIT CUTTER
Q010	Cutter Wheel	TC-1050/227-FA
Q011	Cutter Wheel	TC-1000/312-FC
Q012	Cutter Wheel	206-FB
Q019	Cutter Wheel	406-FA
Q100	Cutter Wheel Screw	TC-1050/227-FA
Q101	Cutter Wheel Screw	TC-1000/312-FC
Q099	Cutter Wheel Screw	206-FB



Value® Tools Tube Cutter Spare Parts

CODE	DESCRIPTION
QV1082	Spare Cutter Wheel for VTC-19 Tube Cutter
QV1083	Spare Cutter Wheel for VTC-28/28B Tube Cutter
QV1084	Spare Cutter Wheel for VTC-32/42 Tube Cutter
QV1085	Spare Cutter Wheel for VTC-70 Tube Cutter



Zoom Spout Oiler

When equipment is in hard-to-reach places, professionals use the Zoom Spout Oiler to get the job done. With a specially designed telescoping spout.

The Zoom Spout Oiler can reach up to 7" to lubricate motors, bearings and more.

CODE	DESCRIPTION
Q143	Zoom Spout Oiler (118ml)



Tube Cutters

Value® Tools Tube Cutter Spare Parts (continued)

CODE	DESCRIPTION
QV1077	Spare Bearing for VTC-19 Tube Cutter*
QV1078	Spare Bearing for VTC-28/28B Tube Cutter
QV1079	Spare Bearing for VTC-32/42/70 Tube Cutter

* Please Note: The VTC-19 Tube Cutter has one bearing inside the cutting wheel - ALL other models have two.

Value® Tools Tube Cutter Spare Parts

CODE	DESCRIPTION
QV1070	Spare Blade Pin for VTC-19 Tube Cutter
QV1071	Spare Blade Pin for VTC-28 Tube Cutter
QV1072	Spare Blade Pin for VTC-28B Tube Cutter
QV1073	Spare Blade Pin for VTC-32/42 Tube Cutter
QV1074	Spare Blade Pin for VTC-70 Tube Cutter

Value® Tools Tube Cutter Spare Parts

CODE	DESCRIPTION
QV1088	Spare Circlip for VTC-19 Tube Cutter
QV1089	Spare Circlip for VTC-28/28B Tube Cutter
QV1090	Spare Circlip for VTC-32/42 Tube Cutter
QV1091	Spare Circlip for VTC-70 Tube Cutter

Bahco® Tube Cutter Spare Parts

CODE	DESCRIPTION
QB1002	Spare Cutting Wheel for 301-22 Mini Tube Cutter
QB1003	Spare Cutting Wheel for 302-35 Tube Cutter



ITE Capillary Tube Cutters

For cutting capillary tubes without collapsing or narrowing the tube.

Cuts ALL sizes of capillary tube.

CODE	DESCRIPTION
Q014	ITE Model CTP-1 Capillary Tube Cutter



Swaging Punches

Swaging tools enables the engineers to make tubing connections with out fittings. The swaging tool allows the engineer to enlarge the end of the tube, allowing another tube of the original O.D. size to be inserted. The two can then be brazed together, creating the connection. Available individually or in a multi-pack.

CODE	MODEL	TO SUIT TUBE SIZE
Q025	93S 03	3/16
Q026	93S 04	1/4
Q027	93S 05	5/16
Q028	93S 06	3/8
Q029	93S 08	1/2
Q030	93S 10	5/8
Q031	93S 12	3/4
Q032	93S 14	7/8
Q033	Proex CH-193	Set of 5 Swages - 1/4, 5/16, 3/8, 1/2, 5/8



Reamers



CODE	MODEL	DESCRIPTION	IMAGE NUMBER
QB1040	316-1	Bahco Pen Type Reamer (No pocket clip)	1
QB1041	316-2	Bahco Plastic Bodied Reamer C/W 2 Blades, 1 stored inside Handle	2
Q098	VTT-5	Value Plastic Bodied Reamer C/W 2 Blades stored inside Handle	3

Yellow Jacket Max-Flow™ Combination Oil Pump

Remove oil for recovery and conversion. Add oil to existing systems. Pumps 2.6 oz. or 78 ml per stroke. Pumps against 200 psi pressure. Comfort-grip rubber handle. Universal stopper automatically adjusts to all standard openings in 1, 2-1/2 and 5 gallon oil containers. Suction transfer hose and fittings included. Pump oil into the compressor on the down stroke while the system is under pressure, making pumping easier with a positive stroke.



CODE	MODEL	DESCRIPTION
Q135	77940	Y/Jacket Max Flow Combination Oil Pump

Yellow Jacket Max-Flow™ Deluxe Oil Pump

Remove oil for recovery and conversion. Add oil to existing systems. Pumps 3.8 oz. (112.38 ml) per stroke. Fits all size oil containers. Foot stand base provides support and leverage while pumping against the high pressures of a running compressor. Operating unit in reverse with adapter hose accessory removes oil from equipment quickly and efficiently. Use with alkyl-benzene, ester-based, poe, mineral and synthetic oils. Will pump against 250 psi pressure.



CODE	MODEL	DESCRIPTION
Q1009	77930	Y/Jacket Max Flow Deluxe Oil Pump

Wipcool Electric Oil Pump

Want to significantly speed up your refrigeration oil charging and recovery then look no further than the R4 electric oil pump from Wipcool. This superb little pump has an incredible flow rate of 150L/h against a system pressure of up to 16 bar when charging oil into the system.

The R4 pump comes complete with inlet and outlet hoses and 1/4" 3/8" SAE adaptors all housed in a handy aluminium flight case.



CODE	MODEL	DESCRIPTION
Q137	R4	230V 50/60Hz Electric Oil Pump

Javac Torque Wrench Set

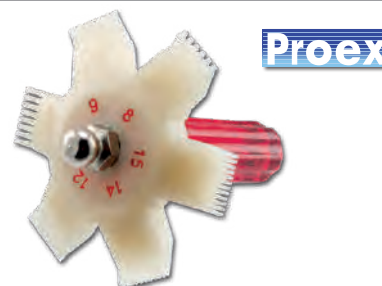
The TW-8 Torque Wrench Set from Javac is designed specifically for refrigeration & air conditioning engineers. Set features 7 heads. Size 17, 19, 22, 24, 26, 27, 29mm and a torque wrench designed for 10-75 Nm. All 8 pieces store in a hard carry case.



CODE	MODEL	DESCRIPTION
Q168	TW-8	Javac Torque Wrench Set

Universal Fin Comb

Fin Comb with 6 different fins sizes on removable head attached via screwdriver style handle



CODE	MODEL	DESCRIPTION
Q120	2503-112	Multi Fin Comb

ITE Coil Fin Cleaning Brush

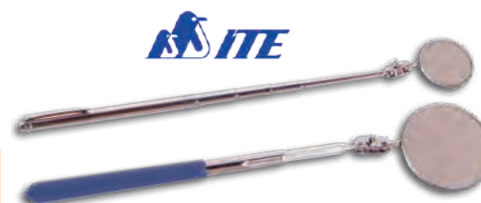
75mm Wide plastic handled, synthetic bristle brush for cleaning condensers and evaporators



CODE	MODEL	DESCRIPTION
Q121	WB-1	ITE Coil Fin Cleaning Brush

ITE Inspection Mirrors

Original all-angle ball joint mirrors with brushed stainless steel mirror backs. Both models listed are telescopic, available in 2 sizes.



CODE	MODEL	DIA. OF MIRROR	EXTENSION
Q059	MIR-1	1-1/4"	4-3/4" to 19-1/2"
Q060	MIR-2	2"	8-1/2" to 18"

Einhell Wet & Dry Vacuum Cleaner

1250 Watt (240V) Wet & Dry Vacuum Cleaner. 20 litre capacity, stainless steel tank. Safety float. Castors, Weight: 6.8kg. Std Accessories: 3m suction hose, 3 x extension pipes, crevice tool, carpet brush, smooth floor attachment, 1 x cloth filter & 1 x paper bag. Spare dust bags available in a pack of 5.



CODE	DESCRIPTION
Q921	Einhell 1250W Wet & Dry Vacuum Cleaner (240V)
Q920	Pk 5 Dust Bags to suit Einhell 1250W Wet & Dry Vacuum Cleaner

Imperial KWIK-VISE™ Refrigerant Recovery Tool

The KWIK-VISE™ pierces, seals and locks onto copper lines in one swift motion. It is self adjusting with no need to alter the tool for different pipe sizes from 1/4 to 1/2.



CODE	MODEL	DESCRIPTION
Q050	PT109	Imperial KWIK-VISE Piercing Tool

Tube Expanders

We offer both the original lever style and newer hydraulic tube expanders from **some** the leading suppliers of refrigeration and air conditioning tools in the world: **Value**,[®] **Imperial**,[®] **ITE**, **Rothenberger** and **REFCO & PROEX**.

ITE TEC-7 Tube Expander Set

The TEC-7 includes 7 heads from 3/8 to 1-3/8, you can buy spare heads separately including a 1-5/8 head.



CODE	MODEL
Q180	TEC-7 Expander Set includes Expander Tool, 7 Heads - 3/8, 1/2, 5/8, 3/4, 7/8, 1-1/8 and 1-3/8 in a Foam Filled Metal Carry Case
Q181	TEC-7 Expander Tool Only (Pt No: TE-6-01)
Q182	3/8" Head to suit TE-7 Kit
Q183	1/2" Head to suit TE-7 Kit
Q184	5/8" Head to suit TE-7 Kit
Q185	3/4" Head to suit TE-7 Kit
Q186	7/8" Head to suit TE-7 Kit
Q187	1-1/8" Head to suit TE-7 Kit
Q188	1-3/8" Head to suit TE-7 Kit
Q189	1-5/8" Head to suit TE-7 Kit

PROEX CH-1000 Tube Expander Set

The CH-1000 includes 6 heads from 3/8 to 1-1/8, you can buy spare heads separately including 1-3/8 and 1-5/8.



CODE	DESCRIPTION
Q179	CH-1000 Set includes Expander Tool, Inner/Outer Reamer 6 Heads - 3/8, 1/2, 5/8, 3/4, 7/8 and 1-1/8 Metal Carry Case
Q169	Expander Tool Only to suit CH-1000 Kit

Rothenberger ROCAM[®] Tube Expander Set

ROCAM[®] Expander set includes expander tool, internal and external deburrer and 6 heads 3/8, 1/2, 5/8, 3/4, 7/8, 1-1/8 in steel carry case.



CODE	DESCRIPTION
Q190	ROCAM Tube Expander Set (12318) including 6 heads 3/8, 1/2, 5/8, 3/4, 7/8, 1-1/8

Genuine Rothenberger replacement expander Head and Expander Tool are available to order only.

Replacement Tube Expander Heads

These Generic Replacement Expander heads fit both the Proex CH-1000 and the Rothenberger ROCAM tube expanders.

CODE	DESCRIPTION
Q170	Spare 3/8" Head to suit CH-1000 & ROCAM Expanders
Q171	Spare 1/2" Head to suit CH-1000 & ROCAM Expanders
Q172	Spare 5/8" Head to suit CH-1000 & ROCAM Expanders
Q173	Spare 3/4" Head to suit CH-1000 & ROCAM Expanders
Q174	Spare 7/8" Head to suit CH-1000 & ROCAM Expanders
Q175	Spare 1-1/8" Head to suit CH-1000 & ROCAM Expanders
Q176	Spare 1-3/8" Head to suit CH-1000 & ROCAM Expanders
Q177	Spare 1-5/8" Head to suit CH-1000 & ROCAM Expanders



Value Hydraulic Tube Expander Set

The Value® VHE-29A pistol grip tube expander is perfect for working in confined spaces such as ceiling voids and risers etc.

Simple one handed operation.

Suitable for soft copper only, can be used on half hard but you MUST anneal the copper first, as you should using any brand of tube expander.

Comes complete with 7 heads 3/8, 1/2, 5/8, 3/4, 7/8, 1-1/8, 1-3/8 and a blow moulded carry case.



VALUE

CODE	DESCRIPTION
QV1041	Value VHE-29A Compact Hydraulic Tube Expander including 7 Heads 3/8, 1/2, 5/8, 3/4, 7/8, 1-1/8, 1-3/8 & Plastic C/Case

Replacement Tube Expander Heads for VHE & VST-29A Models						
QV1140	QV1141	QV1142	QV1143	QV1144	QV1145	QV1146
3/8	1/2	5/8	3/4	7/8	1-1/8	1-3/8

Automotive Quick Couplers

Yellow Jacket Car A/C Quick Couplers

CODE	MODEL	DESCRIPTION
Q1001	41338	Low Side Coupler (Blue)
Q1000	41337	High Side Coupler (Red)



PROEX Car A/C Quick Couplers

CODE	MODEL	DESCRIPTION
Q520	254-A	Low Side Coupler (Blue)
Q521	253-A	High Side Coupler (Red)
Q5208	1234QCL	R1234yf Low Side Coupler (Blue)
Q5209	1234QCH	R1234yf High Side Coupler (Red)



R1234yf Couplers

Bahco Adjustable Wrenches

Considered by many engineers to be the “best adjustable wrench in the world” with wide handle for comfort in use. Improved access in confined spaces with the slim 15° angled jaws. High performance alloy steel. Scale in mm for pre-adjusting and accurate measurement. Head combines slimness for accessibility with strength for performance. Black finish. Precision-hardened and anti-corrosion treated.



QB1362
Set of 3
Wrenches

Bahco 80 Series Adjustable Wrenches

CODE	DESCRIPTION
Q712	Bahco 8070 150mm Adjustable Wrench
Q713	Bahco 8071 200mm Adjustable Wrench
Q714	Bahco 8072 254mm Adjustable Wrench
Q715	Bahco 8073 305mm Adjustable Wrench
QB1362	Bahco Set of 3 Adjustable Wrenches includes a 8070/8071/8072

Bahco Wide Jaw Adjustable Wrenches

Bahco offer 2 versions of these popular Ergo 90 Series wide jaw wrenches. The 9029 & 9031 come in 150mm or 200mm lengths with a wide opening jaw that expands to 38mm and comfortable non-slip thermoplastic grip handle. Scale in mm for pre-adjusting and accurate measurement. Black finish, precision-hardened and anti-corrosion treated.



Bahco 90 Series Wide Jaw Adjustable Wrenches

CODE	MODEL
Q716	Bahco 9029 150mm Wide Jaw Adjustable Wrench
Q717	Bahco 9031 200mm Wide Jaw Adjustable Wrench

Bahco Wide & Slim Jaw Adjustable Wrench

Same wide jaw as the 9031 shown above, but this model has 45% slimmer jaws for greater accessibility in very confined areas. Adjustable wrench developed according to the scientific ERGO™ process. High performance alloy steel. Comfortable non-slip thermoplastic grip handle. Scale in mm for pre-adjusting and accurate measurement.



Bahco 90 Series Slim & Wide Jaw Adjustable Wrench

CODE	MODEL
QB1201	Bahco 9031T 257mm Slim Jaw Adjustable Wrench

Bahco Reversible Jaw Adjustable Wrench

Bahco 90 Series Reversible Jaw Adjustable Wrenches developed according to the scientific ERGO™ process. Reversible jaw for pipe use. Comfortable non-slip thermoplastic grip handle. Scale in mm for pre-adjusting and accurate measurement. Head angle 15° provides better accessibility. High performance alloy steel. Black finish. Precision hardened and anti-corrosion treated.



CODE	MODEL
QB1250	Bahco 9070P 150mm Reversible Jaw Adjustable Wrench
QB1251	Bahco 9071P 200mm Reversible Jaw Adjustable Wrench
QB1203	Bahco 9072P 257mm Reversible Jaw Adjustable Wrench

Bahco Ergo® 5pc File Set

Maximum comfort with minimum effort due to the ergonomic design. Comfortable 2 Component handle giving an excellent grip.

High removal rate files. Contains 1 each, hand bastard, hand second, square bastard, half round bastard, round bastard.



CODE	DESCRIPTION
QB1650	Bahco 47808 5pc File Set

Bahco Water Pump Pliers

250mm long water pump pliers. Comfortable 2 component handles giving an excellent grip. Simple box joint operation. Black finish, anti-corrosion treated high alloy steel.



CODE	DESCRIPTION
QB1451	Bahco 2971G250 Water Pump Pliers

Bahco Stillson Pipe Wrench

18" (450mm) self clamping one-hand traditional Stillson wrench. Spring loaded for ratchet-like use. Body in traditional forged steel, anti-corrosion treated. Induction hardened jaws.



CODE	DESCRIPTION
QB1302	Bahco 36118 450mm Stillson Pipe Wrench

Bahco 9pc Metric Ball End Hex Key Set

Set of long metric ball end black finish hexagon key set. All sizes marked on the holder for an easy selection. 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0 & 10mm.



CODE	DESCRIPTION
QB1190	Bahco 9770 9pc Hex Key Set with Plastic Holder

Draper 30pc Metric/Imperial Hex Key Set

Comprehensive hex key set as it includes both metric and AF long reach hex keys all held within a handy plastic storage case. Perfect for those odd occasions that you come across imperial grub screws on fan motor blade hubs etc.



CODE	DESCRIPTION
Q462	Draper 30pc Metric/Imperial Hex Key Set in Storage Case

Bahco 5 in 1 Panel Key

Switch cabinet wrench for all usual technical shut-off systems. 1 wrench for 5 different applications. A double turning mechanism allows 4 different locks to be positioned. Body houses a 5 mm square and 1/4" bit holder, including magnet.



CODE	DESCRIPTION
QB1369	Bahco MK5 5 in 1 Panel Key

Bahco Ergo® & Standard Side Cutters

Ergo® 2101G side cutters with comfortable 2 component handles giving an excellent grip. Self opening handles when spring activated. Black finish, anti corrosion treated high alloy steel with hardened jaws.

Bahco 2171G side cutters with two component handles for added comfort. Polished and oiled finish.

CODE	DESCRIPTION
QB1400	Bahco 2101G Ergo Side Cutters (160mm Long)
QB1401	Bahco 2171G Side Cutters (160mm Long)



Bahco Pliers

Bahco 2430G Bahco ERGO™ Long Snipe Nose Pliers. Equipped with a return spring featuring an on/off function. Self-opening handles when spring activated. Available in 140 or 160mm lengths.

Bahco 2678G Combination Pliers, comfortable handles give excellent grip. Greater leverage and cutting capacity thanks to joint position Shaped head for better access with specially designed edges for cutting piano wire and spring steel.

CODE	DESCRIPTION
QB1452	Bahco 2430G-140 Long Snipe Nose Pliers (140mm Long)
QB1453	Bahco 2430G-160 Long Snipe Nose Pliers (160mm Long)
QB1450	Bahco 2678G 200mm Combination Pliers



Bahco Magnetic Torpedo Level

Solid aircraft grade aluminium.

3 vials, plumb, horizontal and 45°.

V Groove base for use on pipes.

Rare earth magnets on base Accurate to 0.5 mm/m.

CODE	DESCRIPTION
QB1720	Bahco 426TOR9 230mm Torpedo Level



Bahco 20oz Fibreglass Claw Hammer

The Bahco 428 Curved Claw Hammer has an octagonal neck and a brightly polished round head. Fitted with a fibreglass handle for maximum shock absorption and a comfortable black hand grip. The shaft is painted a bright orange, making it easier to find in a toolbox.

CODE	DESCRIPTION
QB1550	Bahco 20oz Fibreglass Claw Hammer



Bahco Folding Insulation Knife

Bahco 396-INS Folding Insulation Saw with super sharp wavy toothing (WT) for a smooth and clean cut. Fitted with a strong handle and a soft, non-slip grip for increased comfort and control. There is also a safety lock on the blade that can be used in the opened and closed position. Perfect for both pipe and sheet insulation.

CODE	DESCRIPTION
QB1610	Bahco Folding Insulation Knife



Draper Expert Tin Snips

Expert quality, straight cut chrome molybdenum steel compound action blades which increase leverage, serrated for extra grip. Capacity 1.2mm mild steel, 1.5mm aluminium and 0.8mm stainless steel. The spring loaded handles have moulded vinyl grips with slip guards.

CODE	DESCRIPTION
QD1165	Draper Expert Tin Snips



Bahco Rivet Gun

Swivel head rivet tool with head that swivels 360° to rivet at any angle. Fasten metal, leather, canvas and vinyl, using 2,4 / 3,2 / 4,0 or 4,8 mm rivets. Three interchangeable nose pieces can be stored in handle when not in use. 285mm long.



CODE	DESCRIPTION
QB1680	Bahco 2681 Rivet Gun
Q166	Faithfull 4mm Ø Pop Rivets (Pack of 100)

Bolle “Slam” Safety Glasses

Stylish and easy-to-wear, the SLAM provides protection at all times while offering unbeatable comfort. The spectacles have a wraparound fit to provide a panoramic visual field. The lenses have an anti-scratch coating and the arms feature comfortable straight temples. The Perfect glasses, if you have to wear eye protection for long periods.



CODE	DESCRIPTION
Q903	Bolle “Slam” Wraparound Safety Glasses

Work Gloves

The Scan gloves provide good dexterity with decent protection and available in Size 9 (yellow) or Size 10 (orange). The black gloves are thinner but offer very high dexterity, available in size 9 only.



CODE	DESCRIPTION
Q928	Scan Yellow Foam Latex Coated Work Gloves Size 9
Q929	Scan Orange Foam Latex Coated Work Gloves Size 10
Q927	Black PU Coated PU work Gloves Size 9

Bahco Work & Power Tool Gloves

Bahco work gloves designed for day to day working and use with power tools with anti-vibration pads on fingers and palms. Reflective strip across the back. Absorption patch on the thumb.



CODE	DESCRIPTION
QB1800	Bahco 101-10, Size 10 Work & Power Tool Gloves

SCAN Premium Vinyl Disposable Gloves

Pack of 100 ambidextrous design, powder and latex free, non-sterile gloves for single use. Perfect for keeping hands clean whilst retaining good fingertip sensitivity. Keeps hands clean when working with grease and oils etc. Conforms to EN 455 (1/2/3/4).



CODE	DESCRIPTION
Q924	Scan Vinyl Disposable Gloves

Utility Knives



CODE	DESCRIPTION	IMAGE NUMBER
Q438	Rolson Lock Back Utility Knife C/W 11 Blades (10 Stored in handy blade dispenser)	1
QB1366	Bahco Folding Lockable Sports Knife	2
QS1211	Stanley Quickslide Pocket Knife	3
QS1230	Stanley Trimming Knife Blades Pack of 10 including Storage Dispenser	4

Tape Measures

Wide range of tape measures to suit both service and installation engineers.



CODE	DESCRIPTION	IMAGE NUMBER
QS1150	Stanley 5m Rubber Grip Tape Measure	1
QS1151	Stanley 8m Rubber Grip Tape Measure	2
QB1700	Bahco 5m Rubber Grip Tape Measure. Markings both sides, magnetic tip.	3
QB1701	Bahco 8m Rubber Grip Tape Measure. Markings both sides, magnetic tip.	4

Bahco 31pc Bit Set

Bahco 31pc Bit Set with an assortment of flat, PX, PH TX & hex bits, The quick release magnetic bit holder ensures that the bit remains securely in the holder until the release is driven. It features a groove part in both sides of the black coated body for a better grip and a lock-in type system with forward function. In a handy pocket sized plastic storage case.



CODE	DESCRIPTION
QB1107	Bahco 59S31 - 31 Piece Bit Set

Bahco 54pc Colour Coded Bit Set

The Bahco 59/S54BC Colour Coded Bit Set contains a wide selection of bits suitable for universal use. Each bit is made from high-performance alloy steel. Supplied in a durable carry case. Set includes a wide variety of bits plus 1 x Magnetic Universal Bit Holder 1 x Magnetic Quick-Release Bit Holder, 1 x Socket Adapter 1/4in and 7 Extra long colour coded bits.



CODE	DESCRIPTION
QB1620	Bahco 54pc Colour Coded Bit Set

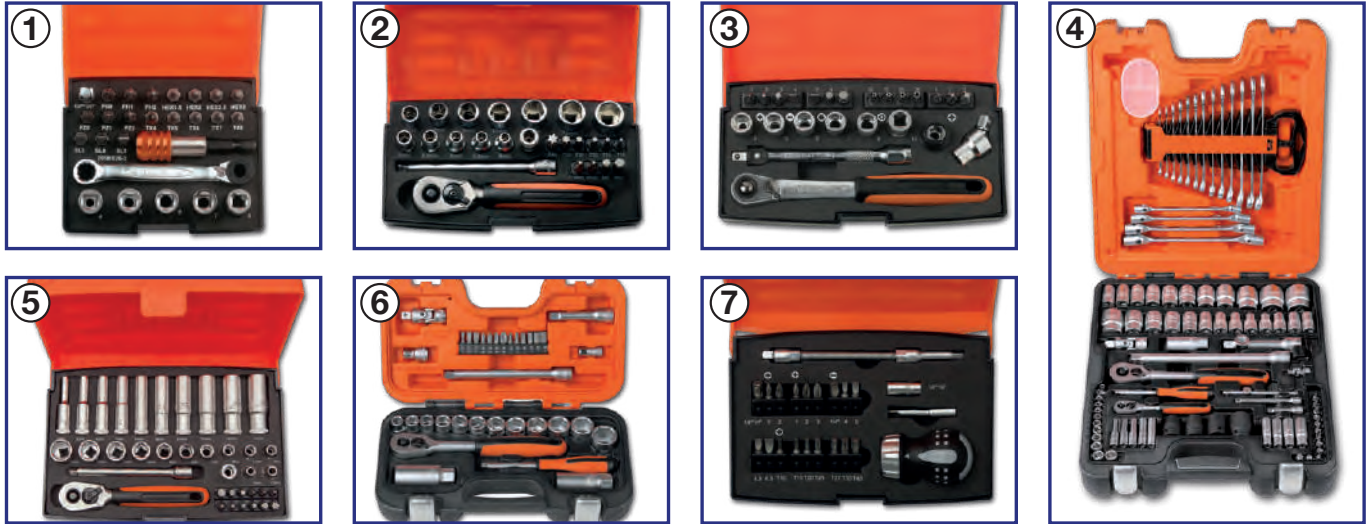
Stanley Magnetic Bit Holder

Stanley Magnetic Bit Holder for 1/4in hexagonal bits.



CODE	DESCRIPTION
QS1008	Stanley Magnetic Bit Holder for 1/4in hexagonal bits.

Bahco Socket Sets



CODE	MODEL	DESCRIPTION	IMAGE NUMBER
QB1502	2058-S26	Bahco 26pc 1/4 Drive Mini Socket and Bit Set with Micro Ratchet	1
QB1352	SL-25	Bahco 25pc 1/4 Drive Pocket Socket & Bit Set	2
QB1363	SL-24	Bahco 24pc 1/4 Drive Pocket Socket & Bit Set with Bit Adaptor and Knuckle Joint	3
QB1355	S877	Bahco 94pc Socket Set 1/4 & 1/2 Drive includes metric Box and Combination Spanners stored inside lid Plus 1/4 Drive Long Reach Sockets	4
QB1364	SL25-L	Bahco 37pc 1/4 Drive Socket Set same as SL-25 but with additional Long Reach Sockets: 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 mm	5
QB1365	S330	Bahco 34pc 1/4 & 3/8 Socket & Bit Set	6
QB1104	808050S22	Bahco 22pc Stubby Ratchet Screwdriver & Bit Set	7

Bahco Ratchet Combination Spanner

Individual metric ratcheting combination spanners.
Easier to use in confined spaces with the 15° operating angle.
Simple direction reversal with single switch operation.
Better grip and knuckle clearance with the 15° ring end angle.
Less wear of fastener with the 12 point Dynamic Drive™ profile ring end.

CODE	DESCRIPTION
QB1051	Bahco 7mm Ratchet Combination Spanner
QB1052	Bahco 10mm Ratchet Combination Spanner
QB1053	Bahco 11mm Ratchet Combination Spanner
QB1054	Bahco 13mm Ratchet Combination Spanner
QB1055	Bahco 17mm Ratchet Combination Spanner



Bahco 4 Sizes in 1 Ratcheting Combination Spanner Set

Set of 3 ratcheting ring spanners with 4 different sizes per spanner.
8/9/10/11mm on one spanner. 12/13/14/15mm, 16/17/18 & 19mm on the other 2 spanners. Comes with a practical storage pouch.

Quicker turning of fastener from the ratcheting action with 4 sizes per wrench. Easier to use in confined space with 5° operating angle.
Simple direction reversal with single switch operation.
Better grip and knuckle clearance with the 15° ring end angle.
Less wear of fastener with the 12 point Dynamic Drive™ profile.

CODE	DESCRIPTION
QB1050	Bahco BAHS4RM3T Ratcheting Combination Spanner Set



Wera Kraftform 18pc KOMPAKT VDE SET

18pc Wera Kraftform VDE Kompact interchangeable screwdriver set comprises of a VDE handle with blade auto-lock system and VDE blades. Supplied in a rugged belt pouch making compact and easy to carry. Very popular set with both service and installation engineers.

18pc set includes:

- 1 x VDE blade holding handle.
- 1 x PZ1 & PZ2, 1 x PH1 & 2 VDE blades
- 4 x Slotted VDE Bblades: 2.5, 3.5, 4 & 5.5mm.
- 4 x VDE combi blades: PZ & PH 1 & 2 (for electrical panels and etc).
- 4 x Various size panel keys for elect & air con panels.
- 1 x Mains tester with pocket clip.
- 1 x Rugged belt pouch.



CODE	DESCRIPTION
Q4010	Wera Kraftform 18pc Kompakt VDE Screwdriver Set

Bahco 5pc VDE Screwdriver Set (Pozidrive)

Bahco 5pc VDE Insulated Screwdriver Set contains:
 3 x Slotted: 3.5 x 100mm, 4 x 100mm & 6.5 x 150mm.
 2 x Pozidriv: PZ1 x 80mm & PZ2 x 100mm.
 2-component handles with vertical grooves for comfortable grip and maximum force transmission.



CODE	DESCRIPTION
QB1359	Bahco 220.015 5pc VDE Insulated Screwdriver Set

Bahco Ergo® Combi Tipped Screwdriver Set

Bahco Ergo Insulated Combined Tipped 2pc Screwdriver Set for slotted and pozidriv (PZ 1 & 2, slotted 5 & 6mm) head screws found on contactors, MCB's, electrical isolators and control panel work. 3-component handle, for maximum user comfort.



CODE	DESCRIPTION
QB1361	Bahco 9890S 2pc Combi Insulated Screwdriver Set

Bahco 6 Bit Magnetic Ratcheting Screwdriver

The Bahco 6 Bit Ratchet Screwdriver is a 1/4in ratcheting bit holder screwdriver with a magnetic bit holder. Has an interchangeable bit storage compartment with release button for quick access to the 6 bits. 1 x PH1, 1 x PH2. 1 x PZ1, 1 x PZ2. 2 x slotted bits: 4.5mm, 5.5mm. Smooth 3 position ratchet mechanism: forward, reverse and neutral.



CODE	DESCRIPTION
QB1100	BAH808050 6pc Ratchet Screwdriver

Stanley Screwdrivers

The Stanley Long reach screwdrivers are the "must have" item in every engineers tool-kit. Perfect for hard to reach screws on those awkward jobs. Available in Pozidrive N° 2 or Phillips N° 2 tip. Both 350mm long. The iconic 6 way screwdriver with 2 x slotted and 2 x Phillips bits plus 2 nut spinners, make this a great favourite with all engineers.



CODE	MODEL
QS1002	Stanley Fatmax PZ 2 Long Reach Screwdriver
QS1003	Stanley Fatmax PH 2 Long Reach Screwdriver
QS1006	Stanley 6 Way Screwdriver

Bahco VDE Insulated Side Cutters

The Bahco 2101S 160mm long side cutters now features the new red and yellow colour scheme on the handles. Anti-corrosion treated finish made from high performance alloy steel, and have plastic injected handles. Induction hardened cutting edges, and round shaped jaws give improved accessibility in confined spaces.



CODE	DESCRIPTION
QB1308	Bahco 2101-S160 VDE 160mm Long

Stanley Fatmax VDE Insulated Side Cutters

The bi-material handles offer the user improved control and grip, incorporating slip guard shoulders for additional safety. They are resistant to temperatures from -20° to +70° C making them ideal for use in demanding or hostile environments. Length 160mm.



CODE	DESCRIPTION
QS1200	Stanley Fatmax VDE Side cutters 160mm

Channel Sockets 1/2" Drive x 17mm

These sockets make installing slotted channel so much easier. Unlike standard round 17mm sockets that get stuck in the channel, these British made sockets are specifically engineered with flat sides that fit in & out of the slotted channel with ease. Channel sockets are available in 2 sizes, one for shallow channel 41 x 21mm and one for deep channel 41 x 41mm.



CODE	DESCRIPTION
XX02196	17mm Channel Socket for 41 x 21mm Channel
XX02197	17mm Channel Socket for 41 x 41mm Channel

Saws (Wood & Metal)

Selection of saws to suit wood, plastic, plasterboard and metal. Spare blades available for both junior hacksaws (supplied in pack 10) and large frame hacksaws supplied singly.



CODE	DESCRIPTION	IMAGE NUMBER
QB1511	Bahco Superior XT range has a thicker blade than conventional handsaws Gives very fast cutting on modern medium hard materials such as chipboard or plastics	1
QB1504	Bahco Junior Hacksaw with fibreglass handle. Supplied with one blade	2
QB1503	Bahco Mini Saw For use in difficult to access areas. Supplied with one blade.	3
QB1510	Bahco Jabsaw for cutting into drywall/plasterboard.	4
QB1520	Bahco Lightweight 300mm Large Frame Hacksaw. Supplied with one blade.	5
QB1522	Bahco Ergo Professional Large Frame Hacksaw. Solid aluminium frame. Alternative 55° blade mounting pins for flush cutting. Supplied with one blade.	6
Q437	Morse 12" (300mm) Large Frame Hacksaw Blades (24tpi) (supplied in singles)	7
Q435	Pack of 10 Spare Junior Hacksaw Blades	8

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Cable Extension Leads and Transformer

2 options available for the 240 Volt extension leads, choose from either closed or open reel models 10 or 20M lengths. 110V model only available as open reel, 25 meters long.



CODE	DESCRIPTION	IMAGE NUMBER
Q1702	Masterplug PRO-XT 10M 240V Cassette Cable Reel 4 Socket 13A	1
SW1704	Defender 20M 240V Open Cable Reel, 4 Sockets, Power On Indicator, Thermal Cut-Out	2
SW1703	Defender 25M 110V Open Cable Reel, 2 Sockets, Power On Indicator, Thermal Cut-Out	3
Q167	110V 3.3Kva Twin Socket Transformer.	4

Replacement Kettle Leads

Replacement kettle Leads in 240 and 110 Volt versions, ideal as a replacement or spare leads for your vacuum pumps or recovery rigs.

CODE	DESCRIPTION
L406	240V Kettle lead with fitted 13A Plug (2m x 1m Long)
L407	110V Kettle lead with fitted 16A Plug (2m x 1.5m Long)



Replacement 110V 16 Amp Plug/Socket

Replace your damaged 110 Volt 16 amp plug or socket on your extensions leads, transformers, recovery rigs or vacuum pumps with these spare BS approved 110 Volt 16 Amp plugs and sockets.

CODE	TYPE	DESCRIPTION
Q161	59851	Draper 110 Volt Plug
Q162	63779	Draper 110 Volt Socket



Rechargeable LED Worklight

The perfect portable worklight offers service and install engineers instant light without mains power. 12-24V DC vehicle charger and UK mains charger included. Very bright 6000K.

CODE	DESCRIPTION
Q729	10 Watt Rechargeable LED Floodlight



Elite Focus - 3 Function CREE LED Torch

The Lighthouse 210 lumen Elite Focus has three functions: high, low and strobe. This top of the range torch features the very latest technology by incorporating CREE LED's, providing a super bright beam from a single source. Small and compact only 35 x 110mm

CODE	DESCRIPTION
Q514	Elite Focus, 3 Function CREE LED Torch



Veto Pro Pac® - Tech Pac Backpack

Veto Pro Pac's Tech Pac is Veto's first backpack tool bag designed specifically for professional AC&R service and commissioning engineers carrying tools & test meters etc. Ideal for those long walks on large sites and city centre call outs. 5 year zero downtime warranty on all Veto Pro Pac Tool Bags.



Tools Not Included

CODE	DESCRIPTION
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QA1602	Veto Pro Pac - Tech Pac Rucksack
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Veto Pro Pac® - Tech Pac MC Backpack

The Tech Pac MC is a compact backpack tool bag designed for techs that need to "hands-free" carry a minimum amount of tools and test meters for service calls and minor installs. Ergonomic padded back bag hanging hook. Waterproof base. 39 pockets. Stainless steel tape measure clip. Dimensions: H43 X L33 X W20 cm



Tools Not Included

CODE	DESCRIPTION
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QA1612	Veto Pro Pac Tech MCT Tool Bag
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Veto Pro Pac® - Tech LC

Designed for the AC&R technicians' tools and working environment. The Tech LC is built to last, incorporating 53 pockets for everything from screwdrivers, pipe cutters, test meters, and tape measure etc. Padded shoulder strap with plastic handle clip. 12 Large tool pockets, 12 Small punch & bit pockets, 4 Small neoprene pockets.



Tools Not Included

CODE	DESCRIPTION
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QA1600	Veto Pro Pac Tech LC Tool Bag
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Veto Pro Pac® - Tech XL

The Tech XL is an extra wide tool bag with 80 pockets giving ample pocket room for hand tools, parts boxes, meters, a cordless impact drill and other bulkier items. Padded shoulder strap clips onto handle. Heavy duty fastenings and zips. Weatherproof body fabric.



Tools Not Included

CODE	DESCRIPTION
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QA1601	Veto Pro Pac Tech XL Tool Bag
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Veto Pro Pac® Tech-Pac Blackout Backpack

The Tech Pac Black is a blacked-out back pack based on the best selling Veto Tech Pac (shown opposite) but with removable tool pocket panels which can be rotated or swapped out with a laptop panel (available as an optional extra), to turn the bag into a tool bag/ laptop bag.



Tools Not Included



CODE	DESCRIPTION
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QA1620	Veto Pro Pac - Tech Pac Blackout Rucksack (AX3561)
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QA1621	Laptop Panel for Tech Pac Blackout (AX3575)
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QA1622	Spare Front Tool Panel for Tech Pac Blackout (AX3573)
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QA1623	Spare Back Tool Panel for Tech Pac Blackout (AX3574)
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Rucksack comes complete with front and back panels. Additional laptop panel also available. You can also buy replacement front and back panels.

Veto Pro Pac® - TP3B Tool Pouch

The TP3B is a “next generation” revised version of the TP3 with a “hard bottom”, extra tool pocket depth and riveted stainless steel tape measure clip. This service pouch stands up, bottom protected, and ready to help carry and help organise your most needed tools for any job or service call. It also has a streamlined metal clip on the back.



Tools Not Included

CODE	DESCRIPTION
QA1611	Veto Pro Pac TP3B Small Tool Pouch

Veto Pro Pac® - MB & MB2 Meter Tool Pouch

The MB is a clip-on bag designed to hold a small selection of tools and meters. The MB2 is a taller version of the MB meter tool pouch and accommodates taller meters, analysers and repair tools. Heavy duty fastenings and zips. 10 interior and exterior tool pockets.



Tools Not Included

CODE	DESCRIPTION
QA1606	Veto Pro Pac MB Meter Tool Pouch
QA1607	Veto Pro Pac MB2 Meter Tool Pouch

Veto Pro Pac® - MB3B Large Meter Bag

Small yet spacious, these clip-on bags are designed to hold a small selection of meters, analysers and repair tools. Organise multiple job specific bags. Heavy duty fastenings and clips. Detachable rubber handles. Various size tool pockets. Clips onto any model Veto tool bag's tape clip or D-Rings.



Tools Not Included

CODE	DESCRIPTION
QA1613	Veto Pro Pac MB3B Large Meter Bag

Veto Pro Pac® TP-XL Extra Large Tool Pouch

Features extra tool pocket depth and riveted stainless steel tape measure clip, closable mid-sized tool pouch that holds a variety of tools, meters, fasteners and wire nuts along with a tablet pocket on the backside to help techs needing a compact bag for a variety of service calls and installs.



Tools Not Included

CODE	DESCRIPTION
QA1614	Veto Pro Pac TP-XL Extra Large Tool Pouch

Bahco Open Tool Bag

The Bahco 3100TB tool bag has an open top for easy access & use, it has a comfortable padded carry strap and handle. There are 10 internal and 11 external pockets for holding various tools as well as a tape measure clip and straps to hold your spirit level, it also has a waterproof base to help protect your tools.

Dimensions: 400mm L x 220mm W x 300mm H



CODE	DESCRIPTION
QB1740	Bahco 19" Open Tool Bag

Bahco Electricians Open Tool Bag

Bahco Electricians Open Tool Bag. Easy access open tool bag. Comfortable carrying strap and handle. Convenient external pockets for an assortment of tools. Waterproof base. Includes plastic storage box hidden in the bottom section. Padded shoulder strap with clicking adjustment. Measuring tape, card and phone holder section. Dimensions: 280mm L x 220mm W x 285mm H.



Tools Not Included

CODE	DESCRIPTION
QB1410	Bahco Electricians Open Tool Bag

Stanley Fatmax™ Rucksacks

The Stanley Rucksack is a hugely popular tool bag with our customers. 50 Pockets / tool holders for a wide variety of tools, plus a waterproof base.

It is now available with wheels and extendible handle to making a classic rucksack tool bag even more versatile.



CODE	DESCRIPTION
QS1110	Stanley Fatmax Rucksack
QS1010	Stanley Fatmax Rucksack with Wheels and Extendible Handle

Stanley Fatmax™ Pro Organiser

Transparent polycarbonate lid locks components in position for easy access, 14 removable storage cups for easy access. Extra large storage capacity for small parts and accessories. Rust proof metal back hinges and aluminium latches. Combined metal/high impact resin. Comfortable heavy duty shoulder strap. Aluminium tubular handle.



CODE	DESCRIPTION
QS1132	Stanley Fatmax Pro Organiser

Stanley Permanent Marker Pens

Choose from the 4 pack multi colour mini markers, with their fine tips in red, green, blue & black or the 2 pack of chisel tip black markers allowing a broad or fine line.



CODE	DESCRIPTION
QS1050	Stanley Mini Marker (Pack of 4)
QS1051	Stanley Fatmax Chisel Tip Markers (Pack of 2)

Magma Technicians Rucksack



Perfect if you have to travel distances without your van, climb or simply need to have a professional profile. Unique lockable zip system to keep tools/documents secure whilst on site or in transit. Multiple vertical storage internally and externally provide maximum organisation potential. 31 pockets and holders including fold out panels for easy tool access. Mobile phone holder. Internal and external document pockets.



CODE	DESCRIPTION
Q152	Magma Technician Rucksack

Magma Technicians Tool Case Plus



Featuring a 100% waterproof, rubber base designed to keep tools/documents protected and dry, the Technician's Tool Case Plus is a unique storage solution specifically designed with the technician in mind, including fold out panels for easy tool access.



CODE	DESCRIPTION
Q153	Magma Technicians Toolcase Plus with Rubberised Base

Magma Technicians Tool Case MAX

Benefiting from 35% greater capacity, the Technician's Tool case Max features a wide central compartment and deep side panels, perfect for storing electronic equipment and larger tools. Extra deep square pockets for easy tool access Removable and adjustable divider for maximum flexibility, 100% waterproof and crack proof base. Heavy duty, pierce protected zips for long life and performance.



CODE	DESCRIPTION
Q129	Magma Technicians Tool Case MAX

Magma Test Equipment Case

The C.K Magma Test Equipment Case is an industry first, allowing AC&R engineers to carry diagnostic testing equipment and a selection of essential tools in one handy case.

- Dimensions: 35 x 24 x 18 cm Weight: 1.8kg.
- Adjustable padded compartments.
- Convenient tool kit storage.
- Handle and padded shoulder strap.

NEW



CODE	DESCRIPTION
Q128	Magma Test Equipment Case

Einhell Extendible Folding Sack Truck

Superb little sack truck is suitable for both install and service engineers. It folds and extends making it compact and easy to store on your vehicle.

Strong lightweight aluminium frame & rubber wheels.

Perfect for carrying refrigerant cylinders and tool bags etc. So handy, every engineer should own one.



CODE	DESCRIPTION
Q922	Einhell Extendible Folding Sack Truck

Stanley 3pc Paint Brush Set

Budget paint brush set perfect for use with insulation paint. The Stanley Hobby paint brush has pure black bristles and a rust resistant ferrule. The yellow polypropylene handle is shaped for comfort. Set of 3 - 25mm, 38mm and 50mm.



CODE	DESCRIPTION
QS1009	Stanley Hobby Paint Brush Set

Dust Sheet

Professional quality plain cotton dust sheet 12ft x 9ft. Perfect for both service, installation and maintenance engineers.



CODE	DESCRIPTION
Q918	Plain Cotton Dust Sheet (12ft x 9ft)

Irwin Titanium Coated HSS Drill Bit Set

Irwin Professional HSS Titanium coated jobbers drillbits with 135° split point. The titanium coating resists wear and minimises friction, thus allowing increased cutting speeds. Contains the following sizes: 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 8.0, 9.0 and 10mm.



CODE	DESCRIPTION
Q4200	Irwin 15pc Titanium Drill Bit Set

Electricians Hole Saw Kits

Electrician Kit 1: 9pc set contains: 16-20-25-32-40-51mm hole saws, 2 arbors & 4 spare pilot drills. Electrician Kit 2: 6pc set contains, 64-76-89 & 102mm hole saws, 1 large arbor, and 4 spare pilot drills.



CODE	DESCRIPTION
Q737	Kit 1, 9pc Electricians Hole Saw Set including Hard Case
Q738	Kit 2, 6pc Electricians Hole Saw Set including Hard Case

Kit 1

Kit 2

Ratchet Straps and Bungees

Masterlock Assorted Bungees 6 piece jar. Jar contains: 2 x 60, 2 x 80 and 2 x 100cm bungees.

2pc Quick Straps are 25mm x 5M and a great addition to any van stock.

The 4.5m Single Ratchet Strap offers a more substantial tie down for gas cylinders etc.



CODE	DESCRIPTION
Q414	Masterlock Pack of 6 Asst Size Bungees
Q448	Pair Automatic Quick Acting Straps
Q441	Single 4.5 Metre Ratchet Strap

Universal A/C Remote Controller

KT-1000 Universal A/C remote control.
1000 codes in 1. Controls most makes of A/C Brands.
Simple setting and easy to use.
Two operations: Model selection by code input (list of most popular codes included) or model selection by auto search.

CODE	DESCRIPTION
Q259	KT-1000 Universal A/C Remote Controller



Square Drive Ratchet Wrench Valve Keys

4 in One Square Drive Ratchet Service Wrenches.

CODE	MODEL	DESCRIPTION
Q116	RW-123	Proex Reversible Square Drive Ratchet Wrench 3/16 - 1/4. One end 1/2 - 9/16 other end
Q118	RW-122	Proex Reversible Square Drive Ratchet Wrench 3/16 - 1/4 one end 3/8 - 5/16 other end
Q141	127-RW	ITE Reversible Square Drive Ratchet Wrench 3/8 - 5/16 one end 1/4 - 3/16 other end Square



Image shows ITE 127-RW

Refco Offset Ratchet Wrench

Refco Reversible Square Drive Offset Ratchet Wrench.
Specially designed to access valves in hard to reach places.
Fits 1/4", 3/8" one end and 3/16" and 5/16" the other.

CODE	DESCRIPTION
Q142	Refco SW-127 Offset Ratchet Wrench



Solenoid Valve Opening Magnet

The SV-OM will manually open solenoid valves when there is no mains power available. This can be very useful when commissioning or reclaiming a refrigerant. The solenoid magnet suits all makes of solenoid valve with a 15 mm and 18 mm diameter stem.

CODE	SIZE
Q508	SV-OM 15mm Diameter
Q509	SV-OM 18mm Diameter



Refrigerant Service Cylinder

10 Kg Service Cylinder with liquid and vapour valve
Suitable for use as a refrigerant reclaim cylinder.
Use for long term storage of refrigerants to avoid cylinder rental charges.

CODE	DESCRIPTION
Q505	10 Kg Service Cylinder



ABUS Brass Padlock

Perfect for day to day use. Locking off electrical isolators etc.
The ABUS 65/50 is suitable for low to medium security requirements and are also suitable where a strong requirement for service performance and longevity is required. Includes 2 keys.

CODE	DESCRIPTION
QB1682	ABUS 65/50 Padlock complete with 2 Keys



Tek-Mate Leak Detector

F-Gas compliant tested to BSEN14624 base unit includes sensor, 2 D-size alkaline batteries, spare filters, and a hard plastic carrying case. Sensitivity to CFCs, HCFCs, HFCs 0.4 oz/yr. R22: 2g/yr, R410A: 5g/yr. 3-position soft touch switch— off, low sensitivity, high sensitivity. Powered by 2 D-size (1.5-volt) alkaline batteries. Automatic contamination adjustment.



CODE	DESCRIPTION
Q493	Tek-Mate Leak Detector

D-Tek-3 Rechargeable Leak Detector

All new, redesigned infrared sensor. Longest sensor life in the industry. Easy field replacement. New lithium ion battery. Long life (~10 hours).

Low, medium, high, and super sensitivity settings. Automatic and manual zero modes. Rugged carrying case included. Detects all CFCs, HCFCs, HFCs, HFOs, and blends (including A2Ls) Detects CO2 with optional CO2 sensor.



CODE	DESCRIPTION
Q3444	D-TEK 3 Refrigerant Leak Detector (721-202-G21)
Q3443	CO2 Sensor for D-Tek-Stratus and D-Tek 3 (704-701-G2)

testo 316-3 Leak Detector

The testo 316-3 refrigerant leak detector can detect all the most common cooling agents and locate even the smallest leaks. Complies with all important regulations and norms. One piece of kit you as a refrigerant technician won't want to be without. Can detect all the most common cooling agents: CFCs, HFCs, HCFCs & HFO.



CODE	DESCRIPTION
QT035	testo 316-3 Leak Detector (0563 3163)

Gas Mate Leak Detector

The Only ATEX approved hydrocarbon leak detector for ALL hydrocarbons including R600 and R290. Also suitable for R32, R1234yf and R1234ze also detects Ammonia. Can also be used with **TRACE-A-GAS®**.



CODE	DESCRIPTION
Q4900	Gas Mate Leak Detector

CPS Leak Seeker II Leak Detector

Simply turn it on and pinpoint the leak, simple intuitive bar graph display. Meets and exceed EN14624. The world's only leak detector with fully automatic sensitivity selection and control. Also perfect for use with **TRACE-A-GAS®**. Sensitivity better than 1oz per/year (3 grams annually). Suitable for HFC's, CFC's, HC's & HCFC's. 3 x "C" size batteries.



CODE	DESCRIPTION
Q491	CPS Leak Seeker II Leak Detectors

Leak Detector Spares

CODE	MODEL
Q495	Replacement Sensor for TEK-Mate & D-TEK Select
Q496	Replacement Filters for TEK-Mate
Q497	Replacement Filters for D-TEK Select
Q490	Replacement Infrared Sensor for D-TEK Select
Q482	Replacement Sensor for CPS Leak Seeker II
Q511	Replacement Filters for CPS Leak Seeker II (Pack 10)
QT076	Replacement Sensor for testo 316-3



D-TEK-STRATUS LEAK DETECTOR

The D-TEK Stratus is the next big step in the world of refrigerant leak detection.

D-TEK Stratus combines the superior leak detection of INFICON D-TEK leak detectors with the cloud hunting capability of a portable monitor all in one hand-held unit. Quickly locate the area containing the leak using the large, easy-to-read LCD display, and then pinpoint the leak all with one instrument! D-TEK Stratus is the next big thing in refrigerant leak detection.

3 operating modes to locate leaks faster than ever:

Cloudhunt; pinpoint and manual zero mode which allows you to locate general area of the leak (cloud hunt) and then to accurately locate (pinpoint) the precise area - all with a portable easy-to-read LCD display in one hand-held unit. Sensitivity of 0.03 oz/year (1 g/year).

Cloud hunter and pinpoint modes is like having two leak detectors in one. 4-sensitivity sensitivity settings in pinpoint mode (super, high, medium and low). New lithium ion battery with quick charge capability and easy field replacement.

Manual zero mode allows the engineer to zero the detector to background refrigerants. Probe filter (pre installed) can be easily checked and replaced, and redesigned infrared sensor has the longest life in the industry.

Detects all CFCs, HCFCs, HFCs, and HFOs. Also detects CO₂ with purchase of additional CO₂ sensor. Designed for ergonomic comfort with rugged carrying case and comes with a two-year replacement warranty.

CODE	DESCRIPTION
Q3442	D-Tek-Stratus Leak Detector Kit (724-202-G11)
Q3443	CO2 Sensor for D-Tek-Stratus (704-701-G2)



**A2L
Compatible**

R22, R32, R134a, R404a, R407c, R410a, R422b, R448a, R449a, R452a, R452b, R507 (AZ50), R1234yf, CO₂ (requires CO₂ sensor), ammonia, SF₆, and more.

- Kit Includes
- D-TEK Stratus Infrared sensor
- Lithium ion battery
- Spare filters
- AC wall charger
- DC car charger
- Extra-long probe
- Carrying case
- Earbuds

Errecom Best Bubbles

A fast and easy solution to identify leaks in refrigerant lines and in components of refrigeration and air-conditioning systems.

Best Bubbles should be sprayed close to the leak point, thanks to its special formulation it adheres to surfaces ensuring immediate identification of the leak through the formation of a large size and thick bubble. Ready to use. Operating range: -40°C to +80°C.

CODE	DESCRIPTION
Q799	Errecom Best Bubbles 1 Litre (Ready to use) (-40°C to +80°C)



RTU® and EasyFind™ Leak Detectors

RTU Bubble-up Leak Detector, 1 litre, in ready to use trigger spray

EasyFind Bubble up Leak Detector Spray in 400ml Aerosol

CODE	DESCRIPTION
M480	RTU® Bubble Up Leak Detector 1 Litre Trigger Spray
M486	EasyFind Bubble-up Leak Detector Spray (400ml Aerosol)



Gotec LDS & LT45 Leak Detector Spray

Gotec leak detection spray is a reliable, safe, economical, quick and convenient method of detecting the precise location of the smallest leak.

Operating range: LDS 0 Deg.C to +50 Deg.C

LT-45 -45 Deg.C to +50 Deg.C

CODE	DESCRIPTION
Q145	Gotec LDS leak Detector Spray (0° to +50°C)
Q146	Gotec LT-45 leak Detector Spray (-45 to +50°C)



Errecom "Brilliant" UV Dye

Locate refrigerant gas leaks with BRILLIANT the leak detection dye visible with UV light. Universally suitable for every air conditioning and refrigeration system. Brilliant UV Dye is supplied in 12 x 7.5 ml syringes making it simple to add the UV Dye to the system and reduce wastage.



CODE	DESCRIPTION
M336	Errecom "Brilliant" UV Dye Syringes (Pack 12)

Spectroline® Optimax Junior UV Starter Kit

The Optimax Junior UV Starter Kit comes with everything you need to get started at a breakthrough price. Kit supplied with: Optimax Junior LED Lamp, 2 x EZ-4/E dye cartridges, EZ-Ject Injector Kit, UVS-40 Spectacles, UV dye cleaner remover and carry case. We also stock spares to re-stock any used items from your kit like replacement dyes, dye remover and even replacement UV specs.



CODE	DESCRIPTION
Q552	Optimax Junior UV Dye Starter Kit
Q554	Spare EZ4/E, EZ/Ject Dye Cartridge
Q600	Glo-Away PLUS+ UV Dye Remover 60ml Aerosol

Spectroline® Glo-Stick® Dye Capsules

The revolutionary way to add fluorescent dye and refrigerant into AC&R systems. No complicated hookups! Ideal for preventive maintenance programs and for multiple, small AC&R units.

Universal Cartridges: For Mineral Oil, Polyol Ester and Alkyl Benzene

CODE	MODEL
Q594	GS1E-CS Glo-Stick® 1E (15 ml Fluorescent Dye Capsule)
Q595	GS101E-CS Glo-Stick® 101E (0.89 ml Fluorescent Dye Capsule)
Q596	GS2E-CS Glo-Stick® 2E (15 ml Fluorescent Dye Capsule)
Q597	GS3E-CS Glo-Stick® 3E (15 ml Fluorescent Dye Capsule)

The following table gives an approximate guide to Glo-Stick capacity. Multiple Glo-Sticks can be used in larger systems.

CAPSULE	APPROX REFRIGERANT CHARGE KGS	APPROX LITRES OF OIL IN SYSTEM
GS1E-CS	1.4 to 2.2 kg	445 ml to 1.5 L
GS101E-CS	1.3kg	445ml
GS2E-CS	2.3 to 4.5 kg	1.6 to 3.0 L
GS3E-CS	4.6 to 11.3 kg	3.1 to 7.6 L

Easy to use — pre-filled, disposable capsules allow dye to be injected into pressurised systems using refrigerant.



JAVAC Inficon Leak Detector Checker

Check your leak detector with this trusted leak source.

TEK-Check is a compact reference leak source that leaks R134a refrigerant at a rate of 5 to 9 g/year (0.18 to 0.32 oz./year), depending on environmental conditions. It is an easy and dependable way to verify your leak detector is working properly.

Features:

Leak rate of 5 grams of R134a at 20°C. Compact size easily fits in most leak detector carrying cases. Easy-to-use. No batteries required. *Note: This is not meant to be a true "calibration" only a reference for proof of functionality. Size: 94mm High x 31mm Diameter.

CODE	DESCRIPTION
Q3441	Javac Inficon Leak Detector Checker



ONLY
AVAILABLE FROM
FSW



FSW |  **cooleo**
Pre Insulated Copper

**AVAILABLE IN
BLACK OR WHITE**

**20M
COIL
LENGTH**

**QUICK
& EASY
INSTALL**

**PROTECTS
COPPER
DURING
TRANSPORT**

**IDEAL FOR
ONE PERSON
INSTALLS**

**TOUGH
OUTER COATING**

**RESISTANT TO
BIRDS &
VERMIN**



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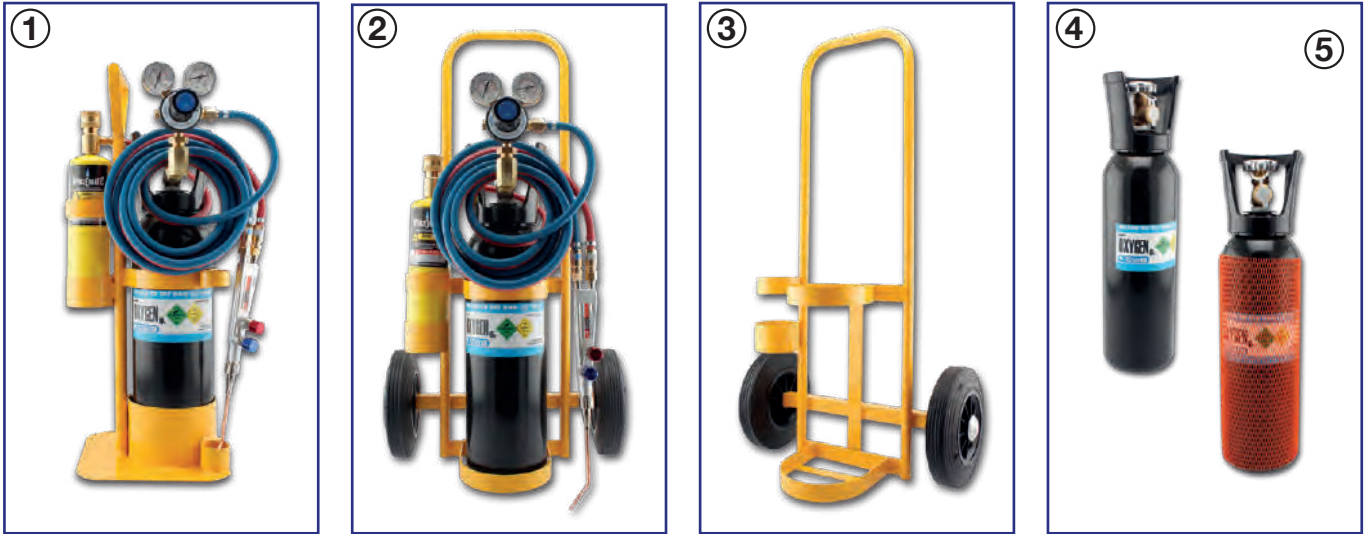


AVAILABLE IN STOCK ACROSS OUR 24 UK BRANCHES

www.fsw.uk.com

FlameTech Brazing Kits

The Flametech compact brazing kits include an oxygen cylinder that “you own” when you purchase the kit. You simply exchange your oxygen cylinder for a refill at any FSW. That means NO Cylinder rental charges. Most of our customers even purchase a second oxygen cylinder as a back-up so they never run out. A Mapp Gas cylinder is used in place of acetylene, yet still gives similar performance compared to any standard oxy/acetylene portapak kit. Both the Pro & Elite feature the same welding kits, The Elite comes with trolley whilst the Pro has a carry stand.



CODE	DESCRIPTION	IMAGE NUMBER
Q525	Flametech Pro Compact Brazing Kit Set with Carry Stand	1
Q528	Flametech Elite Compact Brazing Kit Set with Trolley	2
Q529	Flametech Elite Trolley Only	3
Q526	Flametech Oxygen Exchange Cylinder	4
Q527	Flametech Spare Oxygen Cylinder	5

Toolbox Brazing Kit

The Toolbox Brazing Kit Includes:

- 1 x Oxygen regulator, 1 x acetylene regulator
- 1 x Brazing torch & mixer
- 1 x Pair of 5m hoses
- 1 x Flip up brazing goggles
- 3 x Assorted size nozzles
- 1 x Pistol grip spark lighter
- 1 x Cylinder spanner, 1 x nozzle cleaning set
- 1 x Pair of flashback arrestors, 1 x plastic toolbox

CODE	DESCRIPTION
Q543	Toolbox Brazing Kit



Portapak Trolleys

We offer a choice of 2 Portapak Trolleys. The K1 Trolley is fixed height and the K2 Trolley has an adjustable handle which allows you to reduce the overall trolley height to only 700mm using 5L cylinders.

This is a bonus if you struggle for head room in your vehicle. If you prefer to use the larger 10 litre cylinders on your trolley then we would suggest you use the fixed height trolley, as its more suited for the taller 10L cylinders.

CODE	DESCRIPTION
Q548	K1 Fixed Height Portapak Trolley
Q549	K2 Adjustable Height Portapak Trolley



Turbo Set 1000 Portable Brazing Kit

The Turbo 1000 is a compact and light brazing kit weighing only 5kg. Spare cylinders are readily available from all FSW branches. The perfect kit for service work and ideal for “small” installation jobs.



CODE	DESCRIPTION	IMAGE NUMBER
Q530	Turbo 1000 Brazing Kit	1
Q532	Turbo 1000 Replacement Oxygen Cylinder	2
Q533	Turbo 1000 Replacement Maxy Gas	3
Q538	Turbo 1000 Replacement Hose & Regulator Set Set includes: pair of hoses/valve/gauge regulators & brazing nozzle	4
Q541	Turbo 1000 Replacement Brazing Nozzle	5

Hand Brazing Torches



CODE	DESCRIPTION	IMAGE NUMBER
Q454	Turbo Torch Single Barrel Hand Held Brazing Torch	1
Q455	Turbo Torch Double Barrel Hand Held Brazing Torch	2
Q452	Turbo Torch TX504 Extreme Self Lighting (Piezo) Hand Held Brazing Torch	3
Q4500	Rothenberger Superfire 2 Self Lighting (Piezo) Held Brazing Torch	4
Q4505	Javac Flexi Torch - Self Lighting with Swirl Tip Flame	5

Rothenberger Heat Deflector

Rothenberger Heat Deflector Guard fits most makes of hand torches, helps retain heat around flame and helps prevent area around braze getting scorched.



CODE	DESCRIPTION
Q459	Rothenberger Heat Deflector

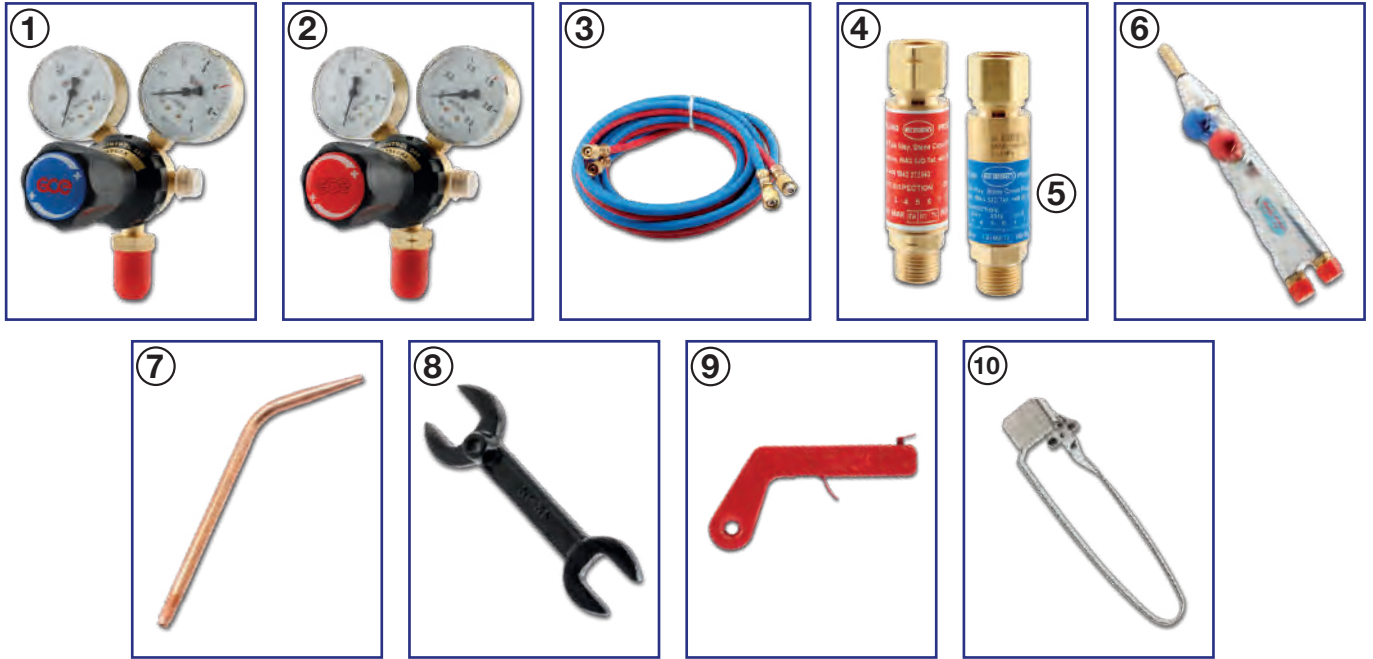
Mapp Gas, Propane & Rothenberger Refills

Spare Map-Plus and Propane cylinders. Plus spare oxygen and Maxygas cylinders to suit the Rothenberger Roxy 120L kits and compatible sets.

CODE	TYPE
Q489	Map-Plus Cylinder (Yellow)
Q465	PT-1 Propane (Cylinder Red)
Q531	Rothenberger 110 bar Oxygen Cylinder
Q587	Rothenberger Maxygas 400 Cylinder (600ml)



Brazing Accessories



CODE	DESCRIPTION	IMAGE NUMBER
Q842	Single Stage 2 Gauge Oxygen Regulator with Base Entry Threads	1
Q844	Single Stage 2 Gauge Acetylene Regulator with Base Entry Threads	2
Q848	Replacement Oxy/Acetylene Hose Set (5 Metre)	3
Q849	Replacement Oxy/Acetylene Hose Set (10 Metre)	3
Q858	Acetylene Flashback Arrestor	4
Q860	Oxygen Flashback Arrestor	5
Q846	Brazing Torch and Mixer	6
Q852	N° 7 Nozzle	7
Q854	N° 10 Nozzle	7
Q856	N° 13 Nozzle	7
Q857	N° 18 Nozzle	7
Q862	Cylinder Spanner	8
Q847	Pistol Grip Sparker	9
Q863	3 Flint Cup Sparker	10

First Aid Kit

Small One Man & Van first aid kit, perfect for service and installation engineers. A compact briefcase style box made of polypropylene. Supplied with a wall hanging bracket.

CODE	DESCRIPTION
Q472	One Man & Van First Aid Kit



Fire Extinguisher

Powder fire extinguisher. UK rating 8A34BC. Used for wood, paper, cloth, plastic, flammable liquids, petrol and gaseous fires also safe for use on electrical fires.

CODE	DESCRIPTION
Q473	2kg Fire Extinguisher



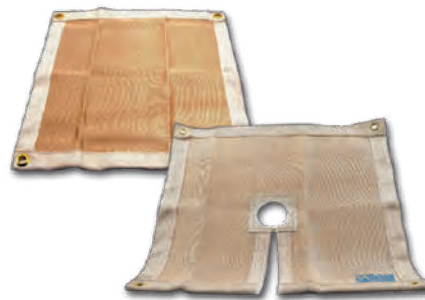
Blaze Barrier Cloth

Protects walls, floors, equipment, components and adjacent surfaces when soldering, brazing or welding. Asbestos free. All cloths have edges taped and sewn with grommets at each corner.

Highly resistant to many chemicals and acids.

Will withstand heat up to 3000 °F

CODE	DESCRIPTION
Q480	18" x 18" Plain Blaze Barrier Cloth
Q481	18" x 18" Keyhole Blaze Barrier Cloth with cut-out for draping over pipes and tubes



Extreme Brazing Mat

Extreme soldering and brazing mat. Asbestos free, professional quality, mat will withstand 1200 degrees C can be used repeatedly with Turbo Type high performance Torches.

CODE	DESCRIPTION
Q479	Brazing Mat (200 x 276 mm)



Errecom Flame Retardant Brazing Gel

PROTECT GEL is a special product in gel formulation to protect the surfaces surrounding the point of contact of the flame during welding or brazing operations. Easy to use. It protects painted and varnished surfaces. Safe and non-toxic. It absorbs the heat from the welding or soldering torch avoiding the areas surrounding the affected point to burn or deform. Gel formula adheres to the surface to be protected without drip, stain or leaving any residue.

CODE	DESCRIPTION
Q486	Errecom Protect Gel (1 Litre)



Blue Monster Open Mesh Abrasive Cloth

Premium blended 165 grit white Aluminum Oxide cuts and scores surfaces faster for more effective cleaning and deburring.

2" Width – 33% wider than traditional 1-1/2" wide plumbers rolls.

Blue Monster provides contractors with more "surface-to-surface" coverage.

CODE	DESCRIPTION
Q633	Blue Monster Abrasive Cloth Roll 50mm x 4.6M Long



Rothenberger Rovlies Cleaning pads

Solvent-resistant and flexible.

Removes oxide layers, corrosion, surface dirt, oil and grease residues.

Reduced corrosion damage.

No metal abrasion, can be used wet if needed.

CODE	DESCRIPTION
Q634	Rothenberger Rovlies Cleaning Pads (Pack 10)



Stop-Heat - Heat Blocking Putty

Anti-Heat putty for soldering and brazing operations, Stop-Heat blocks the heat conduction, protecting surfaces and preventing areas surrounding the welding point from burning or deforming. Its formula in putty adheres without dripping, slipping or leaving residues. Re-usable up to 40 times. Easy to use. Safe and non-toxic.

CODE	DESCRIPTION
Q604	Errecom Stop-Heat Heat Blocking Paste (500gm)



Silver Solder

Cadmium Free Silver Alloy

CODE	TYPE	AG%	ROD SIZE	FLUX COATED	PACK QUANTITY
Q680	440	40	1.5 mm	No	5 Sticks
Q681	440	40	2.4 mm	No	5 Sticks
Q683	440	40	2.4 mm	No	0.5 Kilo

40% Cadmium Free Silver Alloy Flux Coated

CODE	TYPE	AG%	ROD SIZE	FLUX COATED	PACK QUANTITY
Q678	440F	40	1.5mm	Yes	5 Sticks
Q684	440F	40	2.0 mm	Yes	5 Sticks
Q685	440F	40	2.0 mm	Yes	0.5 Kilo

56% Cadmium Free Silver Alloy

CODE	TYPE	AG%	ROD SIZE	FLUX COATED	PACK QUANTITY
Q686	455	40	1.5 mm	No	5 Sticks
Q687	455	40	2.4 mm	No	5 Sticks

56% Cadmium Free Silver Alloy Flux Coated

CODE	TYPE	AG%	ROD SIZE	FLUX COATED	PACK QUANTITY
Q690	455F	56	2.0 mm	Yes	5 Sticks



Brazing Alloys

Copper Phosphorus Alloy

CODE	TYPE	ROD SIZE	PACK QUANTITY
Q800	CUP-7	1.5 mm	10 Sticks
Q801	CUP-7	2.5 mm	10 Sticks
Q802	CUP-7	3.0 mm	10 Sticks
Q805	CUP-7	2.5 mm	1 Kilo
Q808	CUP-7	2.0 mm (Square)	0.5 Kilo
Q775	Silweld PH	3.2 x 1.5 mm (Flat)	1 LB

Copper Phosphorus Alloy with 2% Ag

CODE	TYPE	ROD SIZE	PACK QUANTITY
Q810	Ag2P	1.5 mm	10 Sticks
Q811	Ag2P	2.5 mm	10 Sticks
Q812	Ag2P	3.0 mm	10 Sticks
Q814	Rothenberger S2	2.0 mm	1 Kilo
Q816	Thessco S5	2.5 mm	1 Kilo
Q824	Ag2P	2.5 mm	1 Kilo
Q815	Ag2P	2.5 mm	2.5 Kilo

Copper Phosphorus Alloy with 6% Ag

CODE	TYPE	ROD SIZE	PACK QUANTITY
Q820	Ag6PN	1.5 mm	10 Sticks
Q821	Ag6PN	2.5 mm	10 Sticks
Q825	Ag6PN	2.5 mm	1 Kilo

Copper Phosphorus Alloy with 15% Ag

CODE	TYPE	ROD SIZE	PACK QUANTITY
Q828	Ag15P	2.5 mm	5 Sticks
Q829	Ag15P	3.0 mm	5 Sticks

Flux Powder

CODE	DESCRIPTION
Q693	Flux Powder 250 grams



Brazing Alloys Guidance Table

TYPE	%AG	TEMP. DEG. C	MAX STRENGTH N/MM SQUARE	APPLICATION AND USE
CUP-7	0	710/810	494	Suitable for joining Cu to Cu where ductility is not of prime consideration.
PHOSON	0	644/652	470	Suitable for joining Cu to Cu and designed repairs of leaks where it can be used without adversely affecting joints.
Ag2P	2	644/825	432	A silver alloy offering both capillary action and gap filling ability.
S2	2	650/810	245	Particularly suitable for gap and joint soldering in copper tube.
Ag6PN	6	644/718	476	Extremely fluid alloys for penetration of tight joints with the addition of pure silver, to further enhance fluidity
Ag15P	15	644/800	655	This alloy has the highest ductility in the Cu/P range and is free flowing. It is mostly used for gap filling and for joints subjected to excessive vibration and stress.
440 Cd FREE Ag	40	650/710	432	A cadmium free high silver alloy containing Copper, Zinc and Tin. Recommended for use on ferrous metals, stainless steel, copper and brass.
440F Cd FREE Ag	40	650/710	432	A Flux coated version of the above.
455 Cd FREE Ag	56	620/650	490	A high silver bearing cadmium free alloy. Offers excellent fluidity and capillary penetration at low temperatures. Recommended for use on ferrous metals, stainless steel, copper and brass.
455F Cd FREE Ag	56	620/650	490	A flux coated version of the above.
Flux	-	550/850	-	A powder flux for use with silver brazing alloys that ensures a continual uniform film of flux over the surface when heated.

PLEASE NOTE:

Cu/P alloys are not recommended for joining ferrous metals because of the formation of brittle intermetallics at the interface which can lead to cracking and subsequent failure. They are also not recommended where the joints made are subject to a temperature in excess of 200 Deg.C.

COMMERCIAL REFRIGERATION PRODUCTS



CONDENSING UNITS

A comprehensive range of **Reciprocating** and **Scroll** condensing units for commercial refrigeration sectors.

Digital and **Inverter** units are suitable for multi-cabinet systems or varying load applications.

CELLAR COOLERS

The **JCC** range provides cost effective and reliable units designed with electronic control down to 4°C.

CELLAR+ systems have increased capacities and longer pipe runs for larger cellar cooler applications.



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