









Table of content

SERVICE EQUIPMENT

Service stations
Flushing equipment
Vacuum pumps
Recovery equipment
Accessories

MEASURING INSTRUMENTS

Electronic leak detection Refrigerant identifiers Vacuum gauges Thermometers Scales Test equipment

MANIFOLD SETS AND HOSES

Manifold set Manifold co2 Digital manifold Hoses Gauges

NITROGEN

Nitrogen equipment Trolleys Regulators

LIQUIDS

UV-leak detection fluid Lubricants and UV UV and accessories Flush Cylinders and adapters

HAND TOOLS

Automotive A/C tools

ASSORTRMENTS

O-rings Access valve and caps Orfices Screens Springlock

ADAPTERS

Various sizes

TUBE & HOSE REPAIR

Hoses Hose repair Tube repair





13519

Ariazone 5001 FA R134a

The Ariazone 5001FA ("Full Automatic") features a refreshingly simple dashboard layout that makes it a pleasure to operate. Four arrows, a "start" and a "stop" button allow for a quick navigation through the menu in plain English (or – upon selection - several other languages+).

The menu is easy to view in the new LCD display.

Oil and UV management are organized through two electronic load cells (for oil) and a simple timer (for UV)

An on-board database allows the user to find proper charging weights and lubricant types for a wide range of vehicles.

Obviously, this database can be augmented by manually adding user defined applications. Easily connects to a PC or laptop by means of a USB port.

At the end of the service process, the complete procedure's result is printed.

Ariazone equipment is exemplary in reliability, ease of maintenance and sturdy (metal) design.

TECHNICAL SPECIFICATIONS:

- Vacuum Pump: 72 liter/minute Two Stage (2.5 cfm)
- Recovery cylinder capacity: 20 kg R-134a
- Scale accuracy: 10 gr
- Pressure gauges: 68mm Class 1.0
- Used oil measurement: yes, scale
- Oil injection measurement: yes, scale
- UV injections: yes, timer
- Dimensions: 620 x 590 x 1090 mm
- Weight: 85 kg



Service hose blue, 180 cm	11824
Service hose red, 180 cm	11819
Quick coupling, R-134a, LP	11103
Quick coupling, R-134a, HP	11102
Cylinder hose blue	10615
Cylinder hose red	10616
1 x Filter	13510
2 x Filter	13256
Ester oil, 1 ltr	16601
Recovery tank, 27 ltr	11728
Recycle guard	11001
T-line vacuum pump oil, 1 ltr	12842
UV-Dye	13485
PAG FHD46 YF 250 ml	15344



12471

Ariazone 5001 R134a

Conventional and therefore super reliable a/c service machine. Easy to use - using only four " arrow type" selector buttons.

Recovery - in a single pass recycling mode - the refrigerant passes through an oil separator and filter/drier - thus creating a "ready to re-use" refrigerant. In combination with the scale a reliable measurement of recovered refrigerant is realized.

Evacuation - a strong 2.5 cfm - dual stage vacuum pump dries the system and prepares it to receive the proper amount of refrigerant.

Charging - by simply selecting the quantity of refrigerant using the selector arrows, a proper charge is ensured.

Oil separation - a unique, internally heated oil separator allows for a sufficient oil separation.

Oil and Dye injection - separate oil and dye storage flasks allow for easy on-baord charging of user selected quantities of oil and dye into the a/c system.

TECHNICAL SPECIFICATIONS:

- Vacuum Pump: 72 liter/minute Two Stage (2.5 cfm)
- Moisture indicator/ sight glass
- 5 micron main filter
- Recovery/ storage cylinder 27.2 liter
- Power: 240/50 - 10 amp service fuse
- Dimensions: 600 x 600 x 1,100 (lxwxh)
- Weight: 67 kg



Recovery, vacuum and recharge functions can be selected to run in a semi-automatic mode.

The equipment provides a warning signal when machine service comes due.

Service hose blue, 180 cm	11824
Service hose red, 180 cm	11819
Quick coupling, R-134a, LP	11103
Quick coupling, R-134a, HP	11102
Cylinder hose blue	10615
Cylinder hose red	10616
1 x Filter	13510
2 x Filter	13256
Ester oil, 1 ltr	16601
Recovery tank, 27 ltr	11728
Recycle guard	11001
T-line vacuum pump oil, 1 ltr	12842
UV-Dye	13485
PAG FHD46 YF 250 ml	15344





17761

Ariazone 5001 R1234yf

The future is reliable! The proven technology of the Ariazone A/C service machines is available for the 1234YF refrigerant as well. The simple to use -semi automatic machine offers accuracy and reliability in recovery, recycling, evacuation, and re-charging of automotive a/c systems.

Obviously, the machine will allow the user to add oil or UV additive from on-board storage containers.

The system provides electronically controlled functions, whilst keeping the operator constantly informed and in full control.

This unit has been designed and build to be long lasting and with high level of reliability including maximum safety for the operator. The operator needs only to be responsible for the proper use and maintenance of the unit, in accordance with the manufacturer instructions found in this manual.

TECHNICAL SPECIFICATIONS:

- Refrigerant HFO-1234yf
- Scale resolution +/- 10 g
- Load cell 60kg with 150% overload capacity
- LP and HP gauges AI-D 68 mm kl.1.0
- Recovery cylinder . 12 kg
- Vacuüm pump 115 l/min (4cfm), sparkless
- Dimensions 620 x 590 mm x1090
- Weight 78 kg
- Supply voltage 220-240VAC / 50-60Hz



Service hose blue, 180 cm	14194
Service hose red, 180 cm	14195
Quick coupling, R-1234yf, LP	18577
Quick coupling, R-1234yf HP	18578
Cylinder hose blue	10615
Cylinder hose red	10616
1 x Filter	13510
2 x Filter	13256
Ester oil, 1 ltr	12643
Recovery tank, 12 ltr	11727
Recycle guard 1234YF	16536
T-line vacuum pump oil, 1 ltr	12842
UV-Dye	13485
PAG FHD46 YF 250 ml	15344



17762

Ariazone FA 5001 R1234yf

The Ariazone 5001FA ("Full Automatic") features a refreshingly simple dashboard lay-out that makes it a pleasure to operate. Four arrows, a "start" and a "stop" button allow for a quick navigation through the menu in plain English (or – upon selection - several other languages+).

The menu is easy to view in the new LCD display. Oil and UV management are organized through two electronic load cells (for oil) and a simple timer (for UV)

An on-board database allows the user to find proper charging weights and lubricant types for a wide range of vehicles.

Obviously, this database can be augmented by manually adding user defined applications. Easily connects to a PC or laptop by means of a USB port.

TECHNICAL SPECIFICATIONS:

- Vacuum Pump: 72 liter/minute Two Stage (2.5 cfm)
- Recovery cylinder capacity: 12 kg R1234yf
- Scale accuracy: 10 gr
- Pressure gauges: 68mm Class 1.0
- Used oil measurement: yes, scale
- Oil injection measurement: yes, scale
- UV injections: yes, timer
- Dimensions: 620 x 590 x 1090 mm
- Weight: 85 kg



4
7
3
)
,
)
5





18499

Wigam optima+ r134a/r1234yf

With the 7" Touch Screen Display, OPTIMA can be set up according to one's own working habits. The OPTIMA enjoys a design concept that allows the maximum accuracy of the refrigerant quantity, in line with the industry standards and in full respect of the environment. The 3 independent scales with 1g resolution, managing Oils and Additives, allow to operate in a safe and reliable way on Hybrid and Full Electric Vehicles.

The unit is designed to be able to work with either R134a or R1234yf. With the appropriate completion kit, the OPTIMA can, through a retrofit operation, converted to the use with the other refrigerant.



- Refrigerants R134a/R1234YF (retrofit)
- Recovery rate300 g/min
- Recovery accuracy+/- 15g
- Recovery efficiency>99%
- Charge accuracy+/- 15g
- Pump swept volume100 l/min
- Bottle capacity10 kg
- Refrigerant scale resolution5 g
- Oil/UV scale resolution1 g
- Storage temperature-10 to +50°C
- Working ambient temperature0 to +40°C
- Dimensions & weight (without packaging) 54 x 56 x 118 cm / 64 kg



Service hose blue, 300cm	13969
Service hose red, 300 cm	13404
Quick coupling, R-134a, LP	11103
Quick coupling, R-134a, HP	11102
Quick coupling, R-1234yf, LP	18577
Quick coupling, R-1234yf, HP	18578
Cylinder hose blue	
Cylinder hose red	10616
1 x Filter	
2 x Filter	13256
Ester oil, 1 ltr	16601
Recovery tank, 12,5 ltr	11727
Recycle guard	11001
Recycle guard 1234YF	16536
T-line vacuum pump oil, 1 ltr	12842
UV-Dye	15344

19104

KLIMACHECK CO2 set

With the R744 Climate Service Kit from Klimacheck, A/C service can be performed cost-effectively and easily. Every workshop can enter the field of air conditioning service for CO2 air conditioning systems at low cost.

CO2 refrigerant can be blown off into the atmosphere. The refrigerant is therefore climate neutral. However, when servicing the A/C, strict safety rules must be observed to prevent inhaling too much CO2.

For filling the A/C system with the R744 Climate Service Set from Klimacheck, Klimacheck has developed cartridges with measured amounts of refrigerant for the below listed car brands and types. The cylinders can be exchanged.

- Audi Q4 etron / Audi Q4 Sportback with heat pump R744.
- Seat Cupra Born with heat pump R744.
- Skoda Enyaq with R744 heat pump
- Volkswagen ID3 / ID4 / ID5 / ID6 / ID
 Buzz with R744 heat pump
- Mercedes Benz W213 / W222 / C217 with R744 heat pump
- Konvekta air conditioning systems bus and train.



TECHNICAL SPECIFICATIONS:

- Refrigerant R744 (10kg bottles)
- Works in coop with your R134a service station.
- Two valve manifold with class 1, 1% oil filled gauges
- High pressure hoses operating pressure 200 bar
- LP and HP Quick couplers
- -Oil injector
- Sturdy case
- Oil drain bottle

Replacement parts/Accessories

Quick coupling, R-744 LP	18620
Quick coupling, R-744 HP	18621
Manifold and gauges	18416
R744 Cartridge Mercedes	19106
R744 Cartridge VW-MEB	19105

RVIC DUIPM



14315 14316

Ekotez flushing machines

The Ekoflush K570 and the K560 flushing machines are fully automatic flushing apparatus to flush refrigerant circuits.

As a flushing agent, the Honeywell Solstice PF-C is used. The PF-C product is a specially developed product that resembles a refrigerant with very strong cleaning properties. It is HFO based thus with a low GWP number.

The flushing machine pulses the PF-C through the system, and upon return to the machine- any and all contaminants are separated and disposed of.

Depending on the grade of contamination, the PF-C may be reused many times; thus making the process affordable for critical systems.



- Larger cart type unit suitable for larger systems.
- Suitable for systems up to 12-liter capacity
- Connections: 5/8"-UNF
- Power: 240/501,350 Watt (max)
- Dimensions: 570 x 605 x 950 mm
- Weight: 54 kg





TECHNICAL SPECIFICATIONS 560

- Portable unit for (for instance) rooftop applications
- Suitable for systems up to 5 liter capacity
- Connections: 7/16"-UNF
- Power: 240/501,100 Watt (max)
- Dimensions: 475x 260 x 490 mm
- Weight: 26 kg



19278

Airsept A/C flushing machine

The Airsept AC Flushing machine features an innovative design that offers maximum contaminant extraction on the initial flush pass. AirSept's Flush Machine set-up is OE approved because of the high quality and functionality.

The AirSept A/C Flush Machine offers forward and reverse flush modes with capability of switching on the fly, for deep cleaning heavily contaminated components. Helps shake embedded particulates loose for extraction.

Simply fill the machine with fresh solution, flip the valves to Filter/Flush Mode, then open the Air Control Valve to start the flush process.

The air flow management system maintains a consistent, effective flow while protecting A/C components from excess air pressure. The Air Purge Cycle bypasses the filter, which thus allows greater air flow for faster drying.

15-minute flush and 30-minute drying combine for a quick, efficient process.

AirSept's A/C Flush Machine includes a built-in 2-stage compressed air filter. The filter traps moisture, particulates, oil, and other impurities down to five microns in size.



TECHNICAL SPECIFICATIONS

- Semi-automatic
- Powered by compressed air only
- Operating air pressure 55 PSI
- /3,8 Bar
- With air purge
- Hose diameter 0,375 inch
- Maximum operating temperature 121 Celcius
- Use with 40016 Airsept solvent
- Dimensions: 475x 260 x 490 mm
- Weight: 26 kg

Replacement parts/Accessories

Airsept Solvent......19279

QUIPMENT



16154

T line flushing kit KC5000

The refrigerant flushing kit is solely developed to flush automotive A/C systems. Designed for use with refrigerant R134a or R1234yf.

Flushing the refrigerant circuit with refrigerant is to remove oil and other foreign liquids from the A/C system.

With the electric heating belt the refrigerant in the cylinder can be heated up to 70°C. At 70°C the vapor pressure of R134a is around 20 bar. This extremely warm refrigerant gives a very good cleaning result. On the other side of the A/C system you connect an empty cylinder to collect the contaminated refrigerant.

By using a sightglass at the side of the receiver cylinder you are be able to observe the result of the flushing process. If the result of the flushing process is insufficient, because there is still contamination visible in the sightglass, the flushing process needs to be repeated.

After the flushing process, the refrigerant can be re-used, by utilizing the distillation process via the gas side of the receiver cylinder.

Because liquids, like oil, UV-Dye and other oil contaminations are heavier then refrigerant, the dirt collects at the bottom of the receiver cylinder. After evacuation, the dirt can be drained from the receiver cylinder and appropriately be disposed of.

Below you will find the list of delivered products. These are also available separately.



Cylinder refrigerant 27.2 ltr. with Y-valve	11728
Sightglass Mini A/C 3/8"	16248
Heater Blanket RCH-10	13913
Hose 3/8 yellow 3/8 FF x 3/8 FF 0,20m	15607
Valve Ball 3/8" MF x 3/8" FF	12162
Hose 3/8 yellow 3/8 str. x 3/8 str. 2.00 mtr	14833
Cylinder Adaptor 3/8" SAE TB38/218	12185
-UR3-046 Adaptor ¼"f x 3/8"m	12456
Cap ¼" Brass	11677
Copper Flare Gasket ¼" 704-02-GC	11672
Retrofit Coupler HP ¼"	11979
Adapter UR2-64 3/8"Mf x 1/4"Mf	14672



Adapters

Flush adapter set

Art. # 11101 - 1/4" Art. # 16995 - 3/8"



Flushing an a/c system is an art - not a skill. It requires patience, thoughtfulness and enginuity. Several newer a/c service machines offer a "flush function" in their

menu. However, to actually flush often requires special adapters.

Unicorn offers various universal adapters and adapter sets, including the flush adapter set 1/4" or 3/8" in case.

The use of 3/8" connectors improves the flow, thus making flushing more efficient.



Flushing adapters



Art. # 12507 Flushing adapter (universal) RAC400 1/4"



Art. # 13216 Flushing adapter aluminum



Art. # 15621 Flushing adapter RK-6001

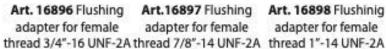


Art. # 15622 Flushing adapter RK-6002



Art. # 15623 Flushing adapter RK-6003







Art.16897 Flushing adapter for female



Art. 16898 Flushinia adapter for female



Art. # 16899 Flushinig adapter 15,4mm



Art. # 16900 Flushinig adapter 18,3mm



Art. # 16901 Flushinig adapter 17,7mm and 11,8mm



Art. # 16902 Flushinig adapter 28,4mm



Art. # 16903 Flushinig adapter 13,8mm



Art. # 16904 Flushinig adapter 16,7mm



Art.# 16905 Flushinig adapter 16,4mm/13,2mm



Art. # 16906 Flushinig adapter 14,7mm/11,9mm



Art. # 16907 Flushinig adapter 14,4mm



Art. # 16908 Flushinig adapter 20,7mm



Art. # 16909 Flushinig adapter 16,8mm/13,6mm



Art. # 16910 Flushinig adapter plate DENSO 10PA



RECOVERY MACHINE

15274

Recovery Unit Appion G5

Ultra-Fast, High Volume Refrigerant Recovery

At only 24 lbs, the industry-leading G5Twin 230 V is the smallest and lightest recovery machine capable of handling the tough demands of industrial/commercial refrigerant recovery - no job is too big for this little beast.

Designed for use with all common refrigerants, including R410A, the G5Twin pumps liquid and vapor without throttling. Featuring twin cylinders, twin condensers, a refrigerant-isolated crankcase and a turbine fan blasting over 700cfm of airflow for cool, durable, powerful operation.

Thanks to its compact size and powerful fan, very little refrigerant remains in the unit after usage. This G5Twin is therefore delivered without purge. The Appion G5Twin non-purge is UL certified and A2L compliant.



Replacement parts/Accessories

Megaflow hoses.....14977, 16176, 15322

TECHNICAL SPECIFICATIONS

- Compact and lightweight Weighs only 24 lbs
- Twin Cylinders and Twin Condensers for ultra fast recovery
- 0.62 lbs/minute vapor and 10.36 lbs./minute of liquid
- Refrigerant-Isolated Crankcase eliminating bearing contamination
- Up to 4X Faster Certified Recovery Rates compared to units in its class
- Automatic Liquid and Vapor Recovery no throttling

- 7-inch 10-blade turbine fan @ 3000 rpm blasts over 700 cfm of cooling air over the twin heads and condensers
- Operates up to 50°F cooler for maximum reliability and speed even in high ambient conditions
- 230 V, 50Hz
- The Appion G5Twin non-purge is UL certified and A2L compliant.



VACUUM PUMP

13758

Vacuum pump Appion TEZ8

The Appion TEZ8 is a completely newly developed vacuum pump; Paying special attention to full flow through the pump.

The pump is consistently constructed on long service life and low flow resistance. The internal bores and connections are extra-large dimensioned. The omission of an internal non-return valve has a major effect on actual capacity. Special oil injection at the points where the oil is needed prevents the need for an oil bath, and also makes the non-return valve unnecessary.

Oil change can be done quickly by exchanging the special TEZOM oil cartridges. This can even happen during vacancy! Also, the quality of the oil is constantly visible in the transparent plastic cartridge; Pollution means replace.

A simple oil and particulate separator will cause dirt from the system into the pump, and no oil from the pump in the system (for example, power failure).

The internal - extra-large fan cools the pump with a small 17,000 liter fresh ambient air. This keeps the pump cool even during prolonged pumping periods.

TECHNICAL SPECIFICATIONS

- Capacity 227 lpm @ 60 Hz
- Connections ¼ "- 3/8" (2x) ½ "SAE
- Oil content 225 ml (cartridge)
- Dimensions TEZ8: 356 x 232 x 265
- - Weight 14.5 kg 230V 50/60HZ



Replacement parts/Accessories

Appion TEZ8 Oil15373 Megaflow hoses......14977,16176,15322

FEATURES:

- 2-stage baffle vacuum pump
- Ultimate vacuum < 20 microns
- Large cooling fan
- Lubricated bearings and baffles
- Compact construction
- External oil cartridge, alternate in seconds (even during operation)
- Oil separator with sieve in the suction
- Oil cartridge and separator transparent
- Connection with 3 sizes
- Plastic housing

ERVICE QUIPMI



VACUUM PUMPS



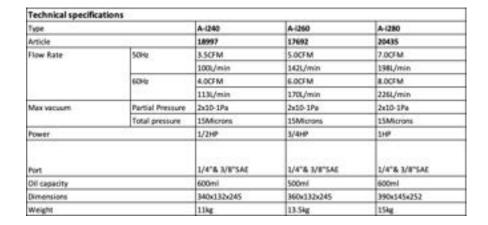
Economy vacuum pumps

We welcomed the Aitcool vacuum pumps range in our line-up, All vacuum pumps are of the dual stage design and are suitable for 110 as well as 220V.

The R32 pump features a spark free switch and an increased power cord. The pump has a high performance thermal and overload protector. It features an exhaust port for the oil-filter

TECHNICAL SPECIFICATIONS







Technical specifications				
Type		A-I2405G-R32	A-I2605G-R32	A-128005G-R32
Article	C. COUC. 1	18413	18827	19332
Flow Rate	SOH	3.5CFM	5.0CFM	7.0CFM
	0.000	100L/min	142ii/min	198L/min
	60Hz	4.0CFM	6.0CFM	8.0CFM
	1837	113L/min	170L/min	226L/min
Max vacuum	Partial Pressure	2x10-1Pa	2x30-1Pa	2x30-1Pa
	Total pressure	15Microre	15Microns	15Microns
Power	1,000,000,000	1/2HP	3/4HP	1HP
Port		1/4"SAE	1/4"5AE	1/4"SAE
Oil capacity		600mi	500ml	600ml
Dimensions		340x132x245	360x132x245	390x145x252
Weight.		11kg	13.5kg	19kg

Replacement parts/Accessories

Vacuum pump oil t-line.....12842
Oil mist filter

PVC transparent drain hose......19181



14756

Sight glass mini complete R134a

T-line A/C diagnosis mini complete with hoses and couplings (R-134a).

The T-line A/C diagnosis sight glass is a handy device for visualizing the refrigerant flow in operation.

By connecting the sturdy sight glass parallel to the refrigerant circuit, the the refrigerant circuit, the refrigerant and oil condition is visible to the naked eye.

The items in the set are also available as individual items,



18576

Sight glass mini complete R134a/R1234yf

The R134a/R1234yf version works in a similar way to the R134a version. The R134a/R1234yf version is completed with specific quick couplers and adapters.



EQUIPMEN.

unicorn



10680

Recycle guard ½" ACME

Too good to be true. Inject an additive into the a/c loop - run system and close all leaks!

Unfortunately, this has almost materialized in the inudstry in the past decade (about). A multitude of chemical manufacturers have come up with additives that will seal a leak without effort. Thus, add additive, runs the system and done. As opposed to an 8-hour R&R job.

However, this is not possible. To clarify, we need to make a distinction between the different leakstop additives.

we can distinguish two different categories:

1. that only work on leaking o-rings or other "rubber" seals. These leaks stop additives are relatively harmless. They allow the older o-rings to swell somewhat and soften up a bit, which improves the sealing performance (temporarily).

2. that also seal leaks in metal parts. These leaks stop additives may - if used incorrectly or carelessly, cause damage.

Why?

Leakstop additives usually work on the basis of activation by air and or moisture. Hence, when it comes in contact with air or moisture - it will " solidify" - and block the leak. In the manifold of any a/c service equipment there is plenty of moisture and air. Thus the sealant will odge in the manifold and block it. Repairs sometimes be so extensive that the machine is rendered a " total loss".

To protect your a/c service equipment, we recommend using the "Recycle Guard" pre-filter. This filter was specifically designed to filter out any leak stop chemicals - thus leaving the refrigerant entering you're a/c service equipment harmless. Saves headaches and money.



Replacement parts/Accessories

Filterset	10681
Hose Acme x Acme	11912
Hose Acme x ¼"	10864
Hose ¼" x ¼"	11916

Note: Recycle guard ¼" SAE Flare - 11001







Filters/dryers

11536	Universal pre/filter for portable recovery units 1/4" SAE, Type 032F	10 (T) 10 I	13945	Filter charging 5001 model 032-1/4 (Ariazone models), Type 032F	D
11656	Fitter/dryer 1/4" SAE Type 162F	200	13946	Filter recovery 5001 mes- sing strainer	
11657	Filter/dry er 3/8" SAE Type 16:3F	m ()	13947	Filter charging 5001 mes- sing strainer	4
12082	Filter/dryer1/4" SAE, Type 302F	-	17963	Filter dryer 1/2" SAE Type FG-164	-
11658	Filter/dryer 3/8" SAE Type 303F	and the second	14941	Filter dryer 1/2", Type DML- 164	-
10369	Filter/dryer 1/2 DML Type 304F	an (10 m)	16770	Filter dryer Spin-On R1234/F R434724	
15310	Filter/dryer O-ring solid core, Type 303OR	m () m	12908	Filter dryer FD565-02 A GOD 428579M2	4
10998	Filter/dryer 3/8" O-ring connection, Type 303OR	-	17326	Filter dryer Texa, Type 303 O-Ring	-
11705	Filter/dryer 1/4" O-ring, Type 4020R		15943	Filter droger 052	-(2)-
10492	Filter/dryer for Vulkan Speedmaox		11659	Filter/dryer cartridge FGR 48, Type 048	
13844	Filter/dryer arc service machines Spin On type (Robinar, Ecotechnics et c)		16832	Suction filter, Type FM085S	
13510	Filter/dryer for Ariazone 5001/601, 162-1/4", Type 162F-Ariazone	-	13948	Oil separator for the service sta- tion Ariazone 5001 with a 1/4" flare connection.	
16214	Filter/dryer for 6001		16033	Filter/dryer for ASC services- tations	Marie Marie
13256	Filter recovery 5001 model 032-1/4, Type 032F		16034	Filter / dryer spin-on for EDK-twin service station	-(



Quick couplers

18577 18578

Quick couplers R-1234YF 12mm





16184 16185 Quick coupler R-1234YF including adapter





11271 11272 Quick coupler R-134a 1/4"SAE





11102 11103 Quick coupler R-134a 14mm





18621 18620 Quick coupler CO2/R744





18621 18620 Port extensions R134a





18621 18620 **Port extensions 1234YF**







18536

T-line 840 – Forming Gas

The D840 features durable electrolyte sensor technology

It is designed to detect halogen refrigerants and forming gas.

D840's unique digital leak size indicator removes any doubts

If a small leak needs to be repaired or not. The digital display is independent of the audio alarm and sensitivity level So the leak source can be accurately located.

- Unique numerical leak size indicator
- Detects all CFCs, HFCs, HCFCs and HFOs.
- Meets or exceeds the performance standards of EN14624
- Visual LED Leak Alert Near Sensor
- Low battery indicator
- Sound mute function
- CE certified
- Durable, stable sensor
- Numerical display Seven segment digital display (1 to 9)
- Detects forming gas (95% N2/5% H2)
- Automatic reset to ambient temperature
- Three adjustable sensitivity levels
- Fully mechanical pump
- Operates on four AA alkaline batteries
- Comfortable rubber handle



TECHNICAL SPECIFICATIONS

Compatible refrigerants			
Sensor	Forming gas and all CFCs HFCs HCGCs and HFO's		
Sensitivity (tested to meet EN 14624-2020)	0.0000	463-67	
95N N2/5N H2	(99% N2/5%	H23:1 g/e	
RE34a	R134a: 5 g/s		
81234gf	81234/- 1 g	/4	
Sensitivity tested to meet EN 14624-2039	1000-200		
	8134e	R1234yt	Formingger
Minimum sensitivity threshold (fixed)	5 g/a	5 g/s	5 g/e
Minimum sensitivity threshold (moving)	5 g/a	2 g/s	3 g/a
Recovery time	20 s	26.4	37,5 s
Minimum detection time (1 g/yr)	Approximate	ly one second	
Sensitivity threshold in polluted atmosphere	18 g/e	12 g/e	37 g/a
Response time	instantaneou		
Warm-up time	c)th seconds.		
Sensor life	+300 hours		
Power supply	Four AA alkaline batteries		
Battery life	4 hours, cord		
Weight	0.7 kg (5.5 fbs)		
Calibration frequency	Annual check with calibrated leak standard		
Probe length	43 cm (37 inches)		

Replacement parts/Accessories

Sensor D840 leak detector......18711

MEASURING INSTRUMENT





T-Line D420 HFC-HFO-HCFC

The D420 features a powerful electrolyte sensor technology designed to meet more common and problematic HFC refrigerants such as R-134a, R-410A, R-404A, R-407A and R-507 in addition to the new refrigerants

HFO-1234yf and all HCFCs (R-22) and CFCs (R-12) including SNAP approved hydrocarbon blends.

D420 does not require rechargeable batteries.

- Detects all CFCs, HFCs, HCFCs and HFOs
- Certified design meets European standard EN14624
- Low battery indicator
- Sound mute function
- CE certified

MEASURING INSTRUMENTS

- Durable, stable sensor
- Automatic calibration and reset to ambient temperature
- Three adjustable sensitivity levels
- Numerical display Seven segment digital display (1 to 9)
- Fully mechanical pump
- Operates on four AA alkaline batteries
- Comfortable rubber handle



TECHNICAL SPECIFICATIONS

Compatible refrigerants			
Sensor	All CFC's HFC's HCGC's and HFO's including R1: and 1234yf		
	15-1-1		
Sensitivity (tested to meet EN 14624:2020			
8134a	R134a: 1 g/a		
R1236yf	R1234yf: 1 g/a		
Sensitivity tested to meet EN 14624-2020		1	
	R134#	R3234yf	
Minimum sensitivity threshold (fixed)	I g/a	1 g/a	
Minimum sensitivity threshold (moving)	1 g/a	1 g/a	
Recovery time	32 s	11 i	
Minimum detection time (1 g/yr)	Approximately one second		
Sensitivity threshold in polluted atmosphere	12 g/s	12 g/e	
Response time	Instantaneous	r	
Warm-up time	<20 seconds		
Sensor life	>300 hours		
Power supply	Four AA alkaline batteries		
Battery life	4 hours, continuous		
Weight	0.7 kg (1.5 fbs)		
Calibration frequency	Annual check with calibrated leak standard		
Probe length	43 cm (17 inches)		

Replacement parts/Accessories

Sensor D42013681



18537

T-Line D540

Unicorn D540 features a long-life heated sensor technology that is designed to detect all combustible gases including methane, propane, butane, acetylene, alcohol, and gasoline.

The unique digital leak size indicator takes the guesswork out of whether or not to repair a small leak. The digital display is independent from the audio alarm and sensitivity level, allowing the precise pinpointing of the leak source..

- Unique numeric leak size indicator
- Detects methane, propane, hydrogen, butane, acetylene, alcohol, gasoline and more
- Low battery indicator
- Audio mute function
- CE certified
- Long life, stable sensor
- Automatic calibration and reset to ambient
- Three adjustable sensitivity levels
- Uses four AA alkaline batteries
- Comfortable Santoprene grip



TECHNICAL SPECIFICATIONS

Compatible refrigerants		
HC Sensor	methane, propune, hydrogen, butane, acetylene, alcohol, gasoline and more	
Sensitivity (tested to meet EN 14624:2020		
R290	1 g/a R290	
Minimum sensitivity threshold (fixed)	1 g/a minimum (R290)	
Minimum sensitivity threshold (moving)	1 g/a minimum (R290)	
Minimum detection time (1 g/yr)	Approximately one second	
Sensitivity threshold in polluted atmosphere	1 g/a	
Recovery time	Approximately 45 seconds	
Response time	Instantaneous	
Warm-up time	<30 seconds	
Sensor life	>300 hours	
Power supply	Four AA alkaline batteries	
Battery life	9 hours, continuous	
Weight	0.7 kg (1.5 lbs)	
Calibration frequency	Annual check with calibrated leak standard	
Probe length	43 cm (17 inches)	

SURING INSTRU MEN





18629

Inficon D-TEK 3

As the first accurate, reliable, highly sensitive, cordless refrigerant leak detector, the original D-TEK revolutionized the field.

D-TEK 3 builds on the proven performance of D-TEK leak detectors with added features to help you get your job done faster. An easy-to-change sensor, quick charge lithium ion battery, and a new ergonomic design make D-TEK 3 a versatile tool for everyday RAC maintenance and repair. Plus, a new optional CO2 sensor gives you two instruments in one. Upgrade your toolbox with this accurate and reliable leak detector.

D-TEK 3 is designed with versatility in mind. Quickly and easily switch to one of the optional sensors to look for refrigerant, CO2, or even flammable refrigerant leaks!

- 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)
- Compatible with optional sensors for CO2 or flammable refrigerants
- Optional extra-long probe for hard-toreach areas



TECHNICAL SPECIFICATIONS

Compatible refrigerants		
Retrigerant sensor	R22, R32, R134a, R404a, R407c, R410a, R422b, R448a, R449a, R452ab, R454ab R507 (AZ50), R1234yt/ze and more	
CO2 sensor	C02 (R744)	
Flammable refrigerant sensor	R290, R600a, R441a	
Sensitivity (tested to EN14624 sta	ndard)	
R134a	0.04 oz.lyr (1 g/yr)	
R1234y1	0.02 oz.lyr (0.5 g/yr)	
R290	0.2 oz./yr (5 g/yr)	
R744 (CO2)	0.07 oz.lyr (2 g/yr)	
Ammonia	0.1 oz./yr (3 g/yr)	
Sensor Ife	Up to 2,000 hours	
Power source	Lithium ion battery (rechargeable)	
	Micro USB (can operate while charging)	
Battery life	-10 hours	
Weight 0.97 lb. (440 g)	-10 hours	
Certifications	EN14624:2020	
	A2L certified	
	CE, UKCA	
Patents	Pat. US 1126229682	
Probe length (standard probe)	-17 in. (43 cm)	

Sensor	18685
Sensor tip	17121
IR sensor	19084.



IDENTIFIER

16652 16653

Legend R1234YF/R134a analyzer

The Legend Series™ R-1234yf/R-134a Refrigerant Analyzer is a refrigerant identifier and analyzer for the past, present, and future. Service R-12, R-134a, and R-1234yf vehicles with one tool.

The Legend ID™ is a worldwide ready tool to meet the service needs of HFO-1234yf equipped vehicles. It is certified to the SAE J2912 standard and connects directly to SAE J2843 and J3030 AC Service machines that have an external analyzer USB port.

Comes complete with;

- R-1234yf and R-134a low side service couplers
- R-1234yf and R-134a cylinder adapters
- (2) R-1234yf sample hoses
- (2) R-134a sample hoses
- Charging adapter
- Custom fit storage case

TECHNICAL SPECIFICATIONS

- Measuring Range:90-100% Pure Refrigerant for analyzed gases
- Accuracy: ±2%
- User Interface: Color LCD, Display Size:5"
- Power: 90-264 VAC, 50-60 Hz
- Digital Communications: USB 2.0, Optional Bluetooth 2.0
- Operating Voltage: 2 VDC
- Ambient Temperature: 50 to 120°F (10 to 49°C)
- Humidity: 0-95% RH non-condensing
- Pressure: 30-500 psig (2 34 Bar)
- Altitude: 0 to 8,000' (2,440 m)
- Dimensions (L×W×H): 26.67×15.24×7.62
- Product Weight: 3.5 lbs.





EASURING INSTRUMENT

- Sample Type: Vapor
- Printer: Integrated Thermal Printer (Optional)
- Refrigerant % Displayed:R-1234yf, R-134a, R-12, R-22, Hydrocarbons (HC), Unknown, Air
- Test Time: 90 seconds

Replacement parts/Accessories

¼" Flare (R-12) Fitting Replacement R-134 a Hose Replacement R1234YF hose Replacement R1234YF Tank Adapter ... Print paper





T-line identifier R1234YF MINI R134A MINI

Economy type refrigerant identifier. Provides PASS or NO PASS information only. Dedicated to R-1234yf orR-134a

Power supplied by vehicle battery (12VDC) via battery clamps. Purge and sampling via manual pump action.

Even at a lower investment it is possible to verify the refrigerant type.



- Weight 0.8 kg
- -R1234yf only or R134a only
- Accuracy OK / Not OK at 95% R1234yf
- Power supply 12V
- Operating temperature -10 ° C to + 45 ° C

MEGAOHM METER



Fieldpiece smg5

The Fieldpiece Digital Megohm Meter, model SMG5, is a compact standalone meter designed for checking HVAC compressor insulation. The SMG5 provides a 1000V voltage source, monitors current, and displays the resistance between the test points. Maximum current output is <1mA. It can be used to determine the condition of insulation from winding to ground in a motor, compressor, or transformer. Includes a case, alligator clip lead tip and leads with removable tips.







- TECHNICAL SPECIFICATIONS

- Predict compressor failure
- 1,000VDC voltage source
- Measure up to 2000 megohm
- Blackli LCD1234yf





VACUUM GAUGE

18625

Aitcool AVG2

The AVG2 has a long wireless range and can be operated on a smartphone.

The LCD display provides a comprehensive overview of vacuum conditions.

Audible and visual alarm for set vacuum. You can arbitrarily switch between 3 kinds of working modes.

Comes in a very strong, impact resistant, durable rubber sleeve.

TECHNICAL SPECIFICATIONS

- Maximum overload pressure 500PSI
- Range 0-10000pa, 0-100.00mbar 0-75.000mmHg, 0-75000microns
- Resolution 1 micron (50 to 2000 microns), 100 microns (2001 to 10,000 microns)



- Refresh rate 0.5 seconds
- Accuracy ±(5% of reading + 5 microns)
 within the reading of 50 to 1000 microns
- Temperature coefficient: 0.1 x (specified accuracy)/ °C (<18°C or >28°C)
- Operating temperature 0°C to 50°C at
 <75%RH

17570

Inficon pilot plus

Innovative filter protects sensor, eliminates need for cleaning Measures from atmosphere to 1 micron
Auto shut-off after 60 minutes
Pirani sensor for better accuracy
Large, easy-to-read LCD display

TECHNICAL SPECIFICATIONS

- Operates for 45 hours on one 9V battery
- Quick calibration specific to local pressure



- Displays in micron, Pascal, Torr or millibar
- Low battery indicator
- Plastic storage case included





VACUUM GAUGE

18691

Fieldpiece MG44INT

Like every piece of Fieldpiece hardware, the Wireless Vacuum Gauge (MG44) is built to make your work easier. It helps eliminate misleading measurements by allowing you to connect it at the system port — even those awkward, hard-to-reach spots. It's also housed in a rugged impact-case.



TECHNICAL SPECIFICATIONS

- Accuracy: ±(5% of reading + 5 microns) at 25°C, 50 to 2000 microns
- Range and Units: 50 to 25000 microns of mercury (English), 6 to 3333 Pascals (Metric), 0.06 to 33.33 mBar (Metric), 50 to 25000 mTorr (Metric), 0.05 to 25 Torr (Metric, equivalent to mmHg)
- Best Resolution: 1 micron of mercury (below 2000 microns), 1 Pascal (below 250 Pascals), 0.001 mBar (below 2.5 mBar), 1 mTorr (below 2000 mTorr), 0.001 Torr (below 2.5 Torr, equivalent to mmHg)

- Battery Life: 40 hours typical alkaline
- Auto Power Off: 15 minutes default (APO adjustable)
- Wireless Range: 1000 feet (305 meters) line of sight. Obstructions affect distance.
- Radio Frequency: 2.4 GHz
- Water Resistance: IP54
- Operating Environment: (-10°C to 50°C at <75% RH
- Storage Temperature: -20°C to 60°C at <80% RH (with batteries removed)
- Weight: 300 g

17452

JB DV-22N

The improved DV-22N Digital Vacuum Gauge is an easy-to-use, compact vacuum gauge featuring a sleek new design with enhanced user settings and an extended range sensor.

Easy-to-read back-lit display Improved response time for instantaneous vacuum reading

Audible and visual alarms when target vacuum level is achieved Measures in microns, psia, inHg, pascals, Torr, mTorr and mBar • Available with rugged carrying case as DV-24N



TECHNICAL SPECIFICATIONS

Vacuum Reading Range 100,000 to 10 microns

Working Temperature +0°C to 48.9°C Power Supply Three AA batteries (included) Shipping Weight 39 kg 9" length x 3.25" width x 1.5" depth



THERMOMETER



T-line RT900

Simple and reliable. This t-line thermometer has a stainless steel temperature probe - making it suitable for air and liquid applications.

Large display refreshes every second. Max/Min and Hold functions.

TECHNICAL SPECIFICATIONS

- Accuracy: \pm 1 ° C between -50 ° C and + 150 ° C, Beyond \pm 2 ° C

- Range: -50 ° C to + 200 ° C

- Resolution: 0.1 ° C between -19.9 ° C and

199 ° C, otherwise 1 ° C

Measuring interval: 1 secondPower: 1.5V battery (AAA)

- Probe: 35 x 125 mm

- Dimensions: 65 x 97 x 20 mm (l x b x h)

- Weight: ~ 100 grams



T-line infrared

The IR9-PEN thermometer is a non-contact infrared thermometer with circular laser

TECHNICAL SPECIFICATIONS

Wavelength 8UM-14UMMeasurement range -33 ~ 500°C

- Accuracy +/- 2.0% / 2.0°C

Operating temperature 0 ~ 50°C
 Response time (90%) 1 sec

- Power supply 1x AAA S





MEASURING INSTRUMENTS

12482

Fieldpiece ST4 – dual temperature meter

TECHNICAL SPECIFICATIONS

- good in ambient conditions of 73°F ±9°F (23°C ±5°C), <75% relative humidity
- Display: 3.5 digit LCD, 2000 count
- Over range: "OL" or "-OL" is displayed
- Range: -58 to 2000°F (-50 to 1300°C)
- Resolution: 0.1°
- Accuracy:
- ±4°F @ -58 to 32°F
- ±(0.3%rdg +2°F) @ 32 to 1100°F
- ±(0.5%rdg +2°F) @ 1100 to 2000°F;
- ±2°C @ -50 to 0°C
- ±(0.3%rdg +1°C) @ 0 to 600°C
- ±(0.5%rdg +1°C) @ 600 to 1300°C
- Accuracy after field calibration: ±1°F @ 30 to 120°F, ±6°F @ 0 to 50°F
- Temperature coefficient: 0.1 x (specified accuracy) per °C (0 to 18°C, 28 to 50°C)
- Measurement rate: 2.5 readings/second
- Battery type: 9V, NEDA 1604, JIS 006P, IEC 6F22



- Battery life: 200 hours typical alkaline
- Operating environment: 32°F to 122°F (0°C to 50°C) at <75% RH
- Storage temperature: -4°F to 140°F (-20°C to 60°C), 0 to 80% RH (with battery removed)



SCALES

20449

Scale T-Line GCW control

Discover our advanced refrigerant scale, with a tripple range weighing format of 30/60/120 kg and 10/20/50g precision. This CE-calibrated scale complies with BRL 100 legislation and has a robust design to ensure durability. The display is protected by an aluminium cover and Plexiglas plate. The built-in NiMH battery ensures mobility and comes with a charger. With our scale, you choose precision, durability and ease of use.

TECHNICAL SPECIFICATIONS

- Weighing format tripple range 30/60/120kg 10/20/50g
- CE-certified (trade purposes)
- Meets BRL 100 legislation
- Robust cast iron body with integrated indicator
- Circular weighing platform with straight front side at the back with integrated handle, width 332 mm, depth 286 mm
- Overall dimensions W x D 332 x 413 mm
- Weighing platform with rubber mat

17224

Refrigerant charging scale 120 kg/ 5g with valve module

Simple refrigerant charging scale with valve module.

TECHNICAL SPECIFICATIONS

120 kg capacity with a 5 gram accuracy.



- Simple, water-protected keypad with 5 function keys (zero, tare (manual, automatic or preset), print, on/off and function key to which a desired function can easily be linked)
- Clearly readable LCD display, height 25 mm, protected by aluminium cover and Plexiglas plate
- Functions include: high resolution weighing (10 x more accurate), net/gross or lb/kg switching, addition, percentage weighing, article counting, hold and peak function
- Nimh battery with charger







SCALES

16679

JB Digital Refrigerant Scale 100 kg Atlas

The JB ATLAS refrigerant charging scale is designed for the HVAC/R industry. Everyday users will appreciate the advanced solid state load cell for superior sensitivity and accuracy. The ATLAS's 100 kg weight capacity, all metal construction, heavy duty plastic storage case. Operates with a 9-Volt battery (not included).



- Solid state load cell accurate to 0.25 oz/ 10gm without need of cylinder directly on center of weighing platform
- Pieces are modularized so parts are easily replaced without need to purchase entirely new unit



- LCD screen on a handheld can be read from a distance or in direct sunlight
- 100 kg capacity
- Displays weight in decimal pounds, pounds and ounces, and kilograms
- Auto shut off after 30 minutes to preserve battery and can be disabled



SR47INT scale wireless 114kg

This calibrated scale combines modern wireless electronics and rugged materials to perform at the high level you demand. The platform is made of thick aluminum to maintain accuracy over the life of the product. Rubber pad and bumpers cushion both the tank and the scale itself. A new wireless protocol sends platform measurements to both the included remote display and the Fieldpiece Job Link® System Mobile App.

TECHNICAL SPECIFICATIONS

- Good in ambient conditions of 73°F ±9°F (23°C ±5°C), <75% relative humidity
- Over range: "OL" is displayed
- Maximum load: 252 lbs (114 kg)
- Auto power off: 30 minutes of inactivity
- Backlight: Blue, turns off in 60 seconds



- Accuracy:±0.03%rdg + (10 g), (0 to 30 kg)
- ±0.05%rdg + (10 g), 30 to 114 kg)
- Resolution and Units: kg g (10 g), kg (0.1 kg), g (10 g)
- Temp. coefficient: 0.1 x (specified accuracy) per °F
- Remote Display: 80 hours typical alkaline
- Platform: 200 hours typical alkaline
- Operating environ.: 0°C to 50°C <75% RH
- Storage temp: -20°C to 60°C, 0 to 80% RH
- Weight: 3.3 kg

MEASURING INSTRUMENTS



TEST EQUIPMENT



Fieldpiece Non-contact voltage tester

This non-contact voltage detector features an analog feel. The closer the probe is to the voltage source, the louder and brighter the indicators become. Detects AC voltages without contact and features a bright red LED light and buzzer. With a 24VAC to 440VAC range of the SNCV1 offers technicians the ability to test thermostats and other HVAC/R parameter easily. Clips to your shirt pocket and is a quick source to find out whether that line is hot or not.

TECHNICAL SPECIFICATIONS

- Detects live AC voltage without contact
- Bright red LED and loud beeper
- Range: 24VAC to 440VAC





MANIFOLDS

11791

T-line 2 valves R134a

- Aluminum zeppelin body
- 2 valve
- 80 mm gauges (1% maximum deviation)
- Refrigerants: R134a, 404A, 407C and R-22

14363

T-line 2 valves R1234yf

- Aluminum zeppelin body
- 2 valve
- 80 mm gauges (1% maximum deviation)
- Refrigerants: R1234yf

11793

T-line 4 valves R134a

- Aluminum zeppelin body
- 4 valve
- 80 mm gauges (1% maximum deviation)
- Refrigerants: R134a

14364

T-line 4 valves R1234yf

- Aluminum zeppelin body
- 4 valve
- 80 mm gauges (1% maximum deviation)
- Refrigerants: R1234yf

13621

T-line 1 valve nitrogen

- Aluminum body
- 1valve
- Class 1.0 gauge
- Nitrogen

18414

T-line 2 valves light

- Aluminum body
- 2 valves
- Calss 1.0 gauge
- R32, R134a, R404A, R407C bar/psi















- 13274
- T-line 2-valves R134a set



- Aluminum zeppelin body
- 2 valve
- 80 mm gauges (1% maximum deviation)
- R134a Quick couplers
- Refrigerants: R134a, 404A, 407C and R-22

14372

T-line 2-valves R1234yf set

- Aluminum zeppelin body
- 2 valve
- 80 mm gauges (1% maximum deviation)
- R1234yf Quick couplers
- Refrigerants: R1234yf













WIANIFOLDS CC

18416

JB 2-valve CO2/R744

The 30744 CO2 Manifold from JB Industries is an easy-to-use 2-valve aluminum manifold

2-Valve aluminum manifold for transcritical CO2 applications

Unique spindle valves tighten easily 3-1/8" (80 mm) Class 1, 1% pulse-free liquid filled gauges

36" hoses with 1/4" SAE fittings (3 pack) working pressure 2900 psi (200 bar) Rugged carrying case (included)





TECHNICAL SPECIFICATIONS

- Low pressure 30" of Hg to 83 bar
- High pressure 30" of Hg to 160 bar
- Temperature range -55°C to 30°C
- Critical point 31.1ºC/72.9 bar
- Certifications: EN472/EN837 pressure equipment directive and 2014/6 8/CE article 4, paragraph 3

17123

Blondelle 2-valve CO2/R744

- Refrigerant: R744 (CO2)

- Transcritical: 160 bar

- 2 lane manifold, aluminium body
- Unique spindle valves, always tight without effort
- Class 1, 'A Lame Acier' Ø 80 gauges
- Dry, oil filled (Ø 80), pulse-free
- Supplied in a Blondelle plastic carrying case including:
- Transcritical: 3 hoses, length 1meter with 1/4" SAE fittings, WP 200 Bar.36" hoses







MANIFOLDS DIGITAL

18352

Fieldpiece SMN380V

Digital wireless 3-port refrigerant Manifold The heavy duty casing, reinforced hook, water resistance, impact resistant screen, SM380Vstrategically placed thermocouple ports, and hermetically sealed sight glass, all ensure the SMANs are ready to withstand the rigors of field use.

TECHNICAL SPECIFICATIONS

- Display: LCD (5 inches diagonal)
- Backlight: Blue (adjustable duration)
- Low Battery Indication
- Over Range Display: OL
- Auto Power Off: 30 minutes of inactivity
- Maximum Manifold Pressure: (5500 kPa)
- Battery Type: 6 x AA alkaline
- Battery Life: 350 hours typical
- Distance decreases through obstructions

17957

Fieldpiece SMN480V

With 4 ports this manifold can handle any job. Thermocouple ports have been moved to the rear for added protection and a streamlined setup. The SM480v also has a built-in micron gauge. The extra-large LCD makes it easier for you to read measurements and live calculations.

TECHNICAL SPECIFICATIONS

- Display: LCD (5 inches diagonal)
- Backlight: Blue (adjustable duration)
- Low Battery Indication
- Over Range Display: OL
- Auto Power Off: 30 minutes of inactivity
- Maximum Manifold Pressure: (5500 kPa)
- Battery Type: 6 x AA alkaline
- Battery Life: 350 hours typical
- distance decreases through obstructions



- Data Port: Micro USB (for extracting data logs or updating firmware)
- Operating Environment: (0°C to 50°C) at <75% RH
- Storage Environment: (-20°C to 60°C) at
 <80% RH (with battery removed)
- Temperature Coefficient: 0.1 x (specified accuracy) per °C (0°C to18°C, 28°C to 50°C)
- Weight: (1.83 kg)
- Water Resistant: Designed to IP54



- Data Port: Micro USB (for extracting data logs or updating firmware)
- Operating Environment: (0°C to 50°C) at <75% RH
- Storage Environment: (-20°C to 60°C) at <80% RH (with battery removed)
- Temperature Coefficient: 0.1 x (specified accuracy) per °C (0°C to 18°C, 28°C to 50°C), per
- Weight: (1.83 kg)
- Water Resistant: Designed to IP54





MANIFOLDS DIGITAL

18208

JB Wireless 4-valve Digital Manifold

4-Valve digital manifold w/CCLE4-60 hose set and case. Can be used with 60+ refrigerants.

TECHNICAL SPECIFICATIONS

- Measures high side and low side pressure (psi and kPa) and temperature (°F and °C)
- Calculates superheat, subcooling, vapor and liquid saturation
- Laser welded stainless steel transducers
- Universal K-Type clamp thermocouples
- Transflective display with easy-tonavigate menu
- Protective boot and water-resistant design

18641

ITE DIMA-4

The digital ITE manifold DIMA-4.is a high quality digital manifold and suitable for use with any k-type thermocouple.

Comes with a 9V battery (40 hours of battery life), a case, hoses and 2 temperature probes.

Possibility to add new refrigerants (will

Possibility to add new refrigerants (wil need re-programming)

TECHNICAL SPECIFICATIONS

- Suitable for more than 50 refrigerants:
- R134a, R290a, 407c, R410a, R404a, R600a, 1234yf, R744(CO2)
- Ammonia version upon request DIMA-4/NH3
- Switch between liquid or vapor
- Indication with non-azeotropic refrigerants (e.g. R-407c.)
- Measuring of vacuum on both working lines (0,01 bar)



- American made heavy-duty forged aluminum Zeppelin®
- 4-valve piston style manifold
- 3/8" bore for faster evacuation
- Soft grip rubber handwheels reduce turning to open/close
- KOBRA® 60' 4-pack hose set included
- Rugged carrying case allows storage with connected hoses

Convenient strap with hanging hook





- Max operating pressure: 56bar
- Accuracy better than 1% off scale
- Sight glass
- Includes 2 type K temperature probes
- Measurement readable in °C & °F.
- Ambient temperature sensor.
- 2 high quality ceramic pressure sensors (range -0,99 till 49,90bar)
- Readable in bar, MPa and psi.
- Subcooling & superheating function

MANIFOLD SETS AND HOSES



HOSES

Service hoses

Below various standard service hoses at a glance. We can make service hoses in any desired connection, colour and length.



Connections blue	15cm	30cm	90cm	150cm	180cm	200cm	250cm	300cm
1/4" Straight x 1/4" Straight		13330			13827	13825		
1/4" Straight x 1/4" 45º				11921	11929			
1/4" Straight x 1/4" Valve 45°	11831		11846	14705				
1/4" Straight x 1/4" 90º	14059	13765	13852		13719			
1/4" Straight x 12 mm					14813		14631	
1/4" Straight x 14mm			11914	11919	11927			
1/2" ACME x 1/2" ACME			11912		11924		16165	
1/2" ACME x 1/4" Straight			10864					16250
1/2" ACME x 1/4" 45º			14690					
1/2" ACME x 1/4" Valve 45º			14925				14060	14466
1/2" ACME x 3/8" Straight				16657				14604
1/2" ACME x 12mm					16051			14897
1/2" ACME x 14mm			11822	11823	11824	13904	13713	11778
1/4" 45º x 1/4" 45º								16629
1/4" 45º x 1/4" 90º	17002							16942
1/4" Valve 45º x 12mm							16667	
1/4" 90º x 1/4" Valve 45º				14475				
1/4" 90º x 12mm				15608	15875			17304
1/4" 90º x 14mm				14021	14427		16452	16465

Connections red	15cm	30cm	90cm	150cm	180cm	200cm	250cm	300cm
1/4" Straight x 1/4" Straight					13663	13646		
1/4" Straight x 1/4" 45º		16363	11917	11922	11930			10797
1/4" Straight x 1/4" Valve 45º	11832		14296	14706				
1/4" Straight x 1/4" 90º			14390		16197			
1/4" Straight x 12mm	16538				14815		14630	
1/4" Straight x 14mm			11915	11920	11928			
1/2" ACME x 1/2" ACME					11925		16166	
1/2" ACME x 1/4" Straight					13106		17034	16249
1/2" ACME x 1/4" 45º			14171		13340	14092		
1/2" ACME x 1/4" Valve 45º			14924				14061	14467
1/2" ACME x 3/8" Straight								14605
1/2" ACME x 12mm					16052			14896
1/2" ACME x 14mm			11817	11818	11819	13903	13714	11795
1/4" 45º x 1/4" 45º								16628
1/4" 45º x 1/4" 90º								16943
1/4" Valve 45º x 1/4" Valve 45º							17170	14387
1/4" 90º x 1/4" Valve 45º				14476				
1/4" 90º x 12mm				15609	15874			
1/4" 90º x 14mm				14022			16453	16466



15cm | 30cm 90cm 150cm 180cm 200cm 250cm 300cm **Connections yellow** 1/4" Straight x 1/4"45º 1/4" Straight x 1/4" Valve 45º 1/4" Straight x 1/4" 90º 1/4" 45º x 3/8" Straight 1/4" 90º x 1/4" Valve 45º 1/2" ACME x 1/2" ACME 1/2" ACME x 1/4" Straight 1/2" ACME x 1/4" 45º 1/2" ACME x 1/4" Valve 45º 1/2" ACME x 14mm

T-Line service hoses 3/8" blue, red yellow



Connections blue	20cm	90cm	150cm	180cm	240cm	300cm	400cm
1/4" Straight x 1/4" Straight			16796				
1/4" Straight x 3/8" Straight		17589		16677			
3/8" Straight x 3/8" Straight	16919	14854	14855	14856	14857	14858	14859

Connections red	40cm	90cm	150cm	180cm	200cm	240cm	300cm	400cm
1/4" Straight x 1/4" Straight			16795	16174	17041			
1/4" Straight x 3/8" Straight		17590		16678			15844	
3/8" Straight x 3/8" Straight	16920	14862	14863	14864		14865	14866	14867

Connections yellow	30cm	90cm	120cm	150cm	180cm	200cm	300cm
1/4" Straight x 1/4" Straight		16071	16934	16041	16676	16883	
1/4" Straight x 3/8" Straight		16476	17368	17371	16955		16510
3/8" Straight x 3/8" Straight	16153	14845	15555	14846	14847	14833	

T-Line service hoses 1/2" black



Connections	180cm
1/4" Straight x 1/4" Straight	17899
3/8" Straight x 3/8" Straight	17901
1/2" Straight x 1/2" Straight	11790

 Set

Set of three flexible hoses red, yellow and blue $\mbox{\it \%}''$ SAE with ball valve 90 cm and 150 cm





PRESSURE GAUGES





	Gauges 80 mm - 63 mm					
Refrigerant	Low pressure	High pressure				
R12	11898 14620	11897 14621				
R22	10524 11898 18173 14620	10523 11897 18174 14621				
R32	14362 17898 18173	14361 17897 18174				
R134a	10524 11886 14620 14362 16187 17562 17715 18173	10523 11904 14621 14361 16186 17714 17561 181				
R404a	10524 14620 17715 17562 18173	10523 14621 17714 17561 18174				
R407a	10524 17715 18173	10523 17714 18174				
R407c	10383	10384				
R401a	10383 17715 17898	10384 17714 17897				
R410a	18173	11897				
R502	11886	11904				
R507	10383 18859	10384 18858				
R600a	14362 16187	14361 16186				
R1234yf	14362	14361				
R1270	18859	18858				





	Gauges oil filled 80 mm - 65 mm					
Refrigerant	Low pressure	High pressure				
R22	17778	17779				
R32	17338	17339				
R134a	17635	17636				
R404a	17635	17636				
R407c	17399 17635	17400 17636				
R407f	17454	17453				
R410a	17635	17636				
R448a	17454	17453				
R449a	17454	17453				
R290	17399 17338	17400 17339				
R600a	17399 17338	17400 17339				





Pressure gauge composite rear connection 80 mm				
Low pressure	High pressure			
18106	18107			









	Panel mount gauges					
Refrigerant	Low pressure	High pressure				
R22	17710	17709				
R134a	16187	16186				
R410a	17710	17709				
R407c	17710	17709				
R1234yf	16187	16186				



NITROGEN PRESSURE KIT

13744 15331

T-line R134a T-line R1234yf

Pressure test kit for R134a

- 1. Nitrogen regulator
- 2. Unibas trolley for 10 ltr nitrogen cylinders
- 3. T line 1 valve nitrogen regulator
- 4. Set of ¼" hoses 1,5 m
- 5. Quick couplers
- 6. Leak detection fluid with applicator



MANIFOLD SETS AND HOSES

T-line R134a complete T-line R1234yf complete

Complete your nitrogen pressure kit with the D840 Nitrogen/Hydrogen leak detector.



Replacement parts/Accessories

Nitrogen regulator 0-38 bar DIN#10	.20439
Leak detection fluid	.12694
T line 1 valve nitrogen regulator	13621
Unibas trolley	11574





TROLLEY

11574 18519

Unibas

Unibas powder coated trolley for 10lr and 20 ltr nitrogen cylinders





REGULATOR

20438-20444

T-Line regulator

Our Nitrogen – Nitrogen/Hydrogen pressure reducing valves are designed for precise and reliable dosing. The pressure reducing valves are available with various connections and can be used with different pressures. This means there is always a pressure reducing valve suitable for your application and situation. The robust construction ensures a long lifespan.





Nitrogen

20438: HP RH – N2 35 bar – 5/8"BSP – ¼"SAE 20439: HP RH – N2 35 bar – DIN477#10 – ¼"SAE 20440: HP RH – N2 35 bar – BS341#8 – ¼"SAE 20441: HP RH – N2 55 bar – DIN477#10 – ¼"SAE

20442: HP RH - N2 27 bar - DIN477#10 $-\frac{1}{4}$ "SAE

Nitrogen/Hydrogen

20443: HP RH - N2/H2 27 bar - 5/8"BSP - ¼"SAE 20444: HP RH - N2/H2 27 bar - DIN477#10 -

1/4"SAE



REGULATOR

10905

Uniweld nitrogen

Simple, dependable, and unique nitrogen regulator for air conditioning and refrigeration applications. Has a continuously variable range from 0 to 38 bar. Comes with ¼" SAE flare connection. No hose adapters needed. Just use your tried and tested refrigerant hose. This means increased safety.



Models

Nitrogen regulator French.......10905 Nitrogen regulator PSI/KPA BS341.....11756 Nitrogen regulator 0-38 bar DIN#10...11757



Models

Seat and adjustable screw	. 11758
Teflon ring	.11768
Filter	11772
Spring knob	11773
Ring	.11774
Induction filter	11775
T-handle spindle	11776
Spring	.11777
Membrane	11957
Over pressure valve (40 bar)	.12415
T-handle nu	11956

13617

Uniweld Pressure gauge

Pressure gauge for Uniweld Nitrogen regulator 0 - 40 bar



TECHNICAL SPECIFICATIONS

- Regulated Pressure 0-40 bar (0-600 PSI)
- 50 mm gauge diameter
- Brass case with rubber boot
- 1/4" BSP (M) bottom connection

13618

Uniweld Pressure gauge

Pressure gauge for Uniweld Nitrogen regulator 0 - 400 bar



TECHNICAL SPECIFICATIONS

- Cylinder Pressure 0-400 bar
- 50 mm gauge diameter
- Brass case with rubber boot
- 1/4" BSP (M) bottom connection





T-line oil

Pag olie 46YF (250ml) t-line

Art. # 15344



T-Line PAG46 1234YF lubricant: Fully compatible with OE fill PAG lubricants. Suited for R-1234YF systems as well as fully backwards compatible with R-134a systems. Due to the unique "Double End Capped" chemical structure also suited for electric or hybrid automotive a/c systems.

POE oil SL 3000 (1 liter) t-line

Art. # 16601



Universal oil for air conditioning systems for cars. Suitable for refrigerant R-134a - R-1234YF and other HFC and HFO refrigerants. For open and hermetic compressors. (Standard and hybrid / electric vehicles) Good mixability with HFC and HFO refrigerants, and with POE and PAG oils. High viscosity index. Super contactor against friction wear.

PAG oil 68EP (R744)

Art. # 18205

Polyalkylene glycol (PAG) oils were specially developed for use in automotive air conditioning systems.









LUBRICANTS AND UV

12842

T-line vacuum pump oil

The high demands of refrigeration vacuum pumps have prompted the use of special, highly refined oil with an ultra-low content of aromatics in the product. In practical terms this means that the oil stays "fit" for a longer period, reaches lower vacuum levels sooner and keeps the vacuum pump cleaner. This in turn translates into a prolonged life expectancy of the pump.

13483

T-line UV Dye

The introduction of R-1234YF as well as the ever-increasing presence of hybrid and electric vehicles has shaken up the small world of suppliers of automotive a/c additives.

The less stable R-1234YF molecule (that is the reason it has less of an impact on the environment) is sensitive to added chemicals in a system. For this reason, it is extremely important to use compatible and safe lubricants and additives.

In the past we were offering specific UV leak detection additives for R-134a, R-1234YF, standard, electric and hybrid vehicle applications.

This was confusing for both our customers, and for our warehouse.

10772

T-line additive oil-based systems

t-line UV Additive oil-based systems, 25ml

10773

T-line additives engine cooling systems

t-line Additive coolant systems, 25ml.



The stability of the oil means that it will not absorb moisture as quickly as standard lubricants, thus extending the longevity of the oil.

Packaged in a 946 ml. bottle.



For this reason, we have totally reengineered our most popular UV additive which now is effective, and safe to use in all (automotive) a/c applications.

So for both R-134a and R-1234YF refrigerants as well as standard, hybrid and electric vehicles.

The dye comes in a 250 ml easy dose bottle, and still uses only 5 mil of product per (automotive a/c) application.
Easy to use, safe to use.







UV AND ACCESSORIES

12694

T-line orange leak

A professional leak detection spray. Produces a viscous coating which makes leaks easy to detect with the aid of nitrogen. Environmentally friendly, can be rinsed off with water.

TECHNICAL SPECIFICATIONS

- 7. 100% bio-degradable
- 8. non-toxic
- 9. non-corrosive
- 10. economical

13095

T-line detection system

Hose Assy - Flare 635cm (for EZ-Inject), injector and one cartridge

15414

T-line UV dye & oil injector R134a

UV dye & oil injector assy clear with 134a coupler.

15785

T-line UV dye & oil injector R134a

UV Dye & Oil Injector Assy Clear with 1234YF coupler

13884

Retrofit Concertina starter kit T-line

The quickest way to safely retrofit an older (automotive) R-12 system to R-134a refrigerant. This special injector contains a proprietary PAG-plus lubricant with additives that mix well with the existing mineral oil in the system.





Replacement parts/Accessories
Orange leak 5 ltr refill



Replacement parts/Accessories EZ-inject cartridge 120ml







Replacement parts/Accessories

Retrofit cartridge......13885



UV AND ACCESSORIES



T-line leak detection SL3300

Rechargeable Sunlonge torch set including UV enhancing glasses.

The torch has a wavelength range of 365-370 nm. UV intensity:60000 uw/cm2 at 15 inch distance

The set is supplied in a sturdy, durable case with UV goggles.



T-line leak detection SL6300

Stronger version of the SL3300. The Sunlonge torch has a wavelength range of 390-395 nm. UV intensity:100000 uw/cm2 at 120 mm distance

The set is supplied in a sturdy, durable case with UV goggles.



UV leak detectionlamp kit Optimax Jr. complete

The super compact Optimax Jr Leak
Detection Lamp is the basis of this
comprehensive and affordable UV Leak
Detection Kit. Besides the simple and
powerful LED lamp, the kit consists of:

- The EZ Ject Dye Injector
- An injector hose with quick coupler
- An adapter to work with ¼" connections
- One EZ-Ject dye cartridge



T-line mini bright

Compact UV inspection lamp operates at the 400nm wavelength which is ideal for fluorescent leak detection of mobile A/C tracer











CYLINDERS AND ADAPTERS

11727 11728 13413

Recovery cylinder

TPED standard EN13322-1
Provided with dual valve (Y) valve 1/4" SAE
One liquid port, one vapor port
Maximum pressure in cylinder: 48 bar
Safety valve opens at 42 bar
Suitable for all common refrigerants
Capacity: 12,5, 27,2 and 61 ltr

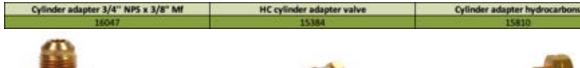


CYLINDER ACCESSORIES



CYLINDER ADAPTERS

Cylinder adapter DIN477#6 x 1/4" SAE	Cylinder adapter 3/8" BSP - 3/8" SAE	Cylinder adapter 3/4" NPS Cylinder x 1/4" M.F.
11726	12185	15409









Tank adapter 1/4" MF SAE x 21.8mm Left thread	Cylinder adapter 1234yf small	Cylinder adapter 1234yf large
16344	15328	15327







Cylinder adapter set	Cylinder set HP R134a	Cylinder adapter 3/8" BSP – 3/8" SAE
15337	16233	12185









13913

Heating pad RCH-10

Heating blanket for refrigeration cylinders. Heats up the cylinder and thereby increases refrigerant pressure. Indispensable in colder ambient.

TECHNICAL SPECIFICATIONS

11. Max. heating to 45°C

12. Wattage: 220 Watt

11737

Valve 2-way 28.8mm DIN

Cylinder Valve(dual) 28.8mm DIN









refrigeration tools & equipment

HANDTOOLS

For cutting copper, brass and aluminum tubes and A/C Hoses in various sizes we are offering a suite of tube cutters and hose cutter in various sizes.

Replacement parts/Accessories

Cutting wheel small $1/8" - 5/8" \dots 16630$ Cutting wheel large $1/4" - 15/8" \dots 17610$ Cutting wheel $1/8" - 11/8" \dots 18758$ Cutting wheel $1/8" - 11/8" \dots 11807$

15217	T-line tube cutter
15217	1/8" - 5/8"



T-line tube cutter 1/8" – 5/8"



T-line tube cutter 1/8" – 1 1/8"



Uniweld tube cutter 1/8" 1 1/4"



T-line capillary tube cutter



Hose cutter



Deburring tool
Deburring inside/outside



T-line service hose seal remover and instalation tool



Burgaclip pliers





17969 17970 T-line flaring tool with eccentric cone (inch/metric)

Light weight flaring tool with an eccentric cone. Which decreases the chance of ripping, because of the rolling movement. Manual operation possible. However, you can also choose to handle it with your (wireless) drill/screwdriver.



T-line flaring tool automatic

Flaring tool to create a flare on a copper tube.



T-line fin straightener

For alignment and straightening condenser or evaporator fins.



Valve core remover

Valve core remover available in two sizes 11994 For standard & JRA valves 12459 For large eaton type valves



T-line Service magnet coil 20mm

Strong permanent magnet for operating magnetic valves by hand. Fits virtually all solenoid valve stems up to a core diameter of 20mm.















12085 11802 16697

T-line ratchet wrenches

Large and small Reversible ratchet wrench

Use with "Back seated valves": Proper refrigeration tools are of great importance. Straight ratchet wrenches come in handy when working in small spaces

12085 - Large straight ratchet:

- -1/2" and 9/16" hex
- 3/16" and 1/4" square

11802 - Small straight ratchet:

- 3/8" and 5/16" square
- 3/16" and 1/4" square Reversible ratchet wrench set complete



T-line Torque wrench

Torque wrench with easy to change wrench heads. Makes it easy to correctly torque the flare nuts on critical systems.

Heads included are:

17 - 22 - 24 - 26 - 27 - 29 mm.



T-line Socket for R134a primary seals

Octagonal sockets (3/8" square drive) to remove and install the R-134a Primary Seals as used on many automotive air conditioning circuits. One tool for both 16mm (HP) and 13mm (LP) ports.



Various sizes of tube benders









13981
11634
11635
11636
11637
11799





12106

T-line clutch hub toolkit

Universal tool kit for assembly & disassembly of clutches on most used compressors.



Denso 5SE, 6SE, 7EU

Most of today's modern Denso compressors are externally controlled and so optimize the capacity of the compressor. This mostly eliminates the common clutch. The compressor pully rotates continuously with the engine. A shear protection rubber is incorporated in the pulley..

When these shearing blocks break, the pulley needs to be removed. Only the special Denso removal tool will allow you to remove the pully without much effort or damage.



DeLuxe (Ford) Springlock release tool set

The proven "springlock type" tube connections have been around for many decades. Used in a/c systems as well as coolant and fuel systems. This "Deluxe" disconnect tool kit provides additional sizes and a different shape to allow for use on these systems as well. Made of beautifully color anodized aluminum,



CONTENT

- Universal clutch holding tool
- Sanden SD 5 & 7 clutch end plate remover
- Bearing
- Metric clutch plate remover/installer
- Fractional clutch plate remover/installer
- Nippondenso GP/109 remover/installer
- Clutch plate remover Arbor



MANUFACTURER

Original Denso product!



CONTENT

7/8" Red, ¾" Black, 5/8" Green ½" Gold, 3/8" Blue, 5/16" Yellow



17290

T-line Springlock set

We have put together a springlock tool set with various sizes for different car brands

Replacement parts/Accessories	
Springlocktool ¾" White Ford	12000
Springlocktool ½" Blue Ford	11998
Springlocktool 3/8" Green VW	10539
Springlocktool 3/8" Red Ford	11997
Springlocktool 5/8" black Ford	11999
Springlocktool 5/8" black VW	10540
Springlocktool Opel Blue	10167
Springlocktool Opel Red	10166
Springlocktool Toyota	10611
Springlocktool Audi liquid line	14330
Springlocktool Audi	14329



10611

Disconnect tool for Toyota tube connectors

To disconnect the Toyota tube connectors professionally and safely; this tool is indispensable





refrigeration tools & equipment

HANDTOOLS

T-line Audi Springlock set

14367

Audi's new air conditioning systems are a marvel of ingenuity. Just check out the way they designed the liquid and suction lines going into the firewall! Anyway, at the same time of re-engineering the layout and system, Audi engineers also developed a new tube connection. No simple pad fitting, Pea fitting or springlock; no a very new and special "springlock-like" connection was put in place.

For the service engineers a big challenge, because how to open this fitting without damaging the tubes?

12545

Tubeconnectors Toyota

Several Toyota vehicles use special connection clamps to fit the liquid and suction lines.

During repair, these clamps can easily be damaged or misplaced. Hence we have added the replacement clamps to our line.

Available as a set of 1x liquid line clamp and 1x suction line clamp.



Personal Protection

Replacement parts/Accessories

Safety goggles......11558
Safety gloves......15707









refrigeration tools & equipment

ASSORTMENTS

Assortment set t-line deluxe including tower

Art. # 17363



This article consists of the following parts:

Article 17287: o-ring set 1 t-line
Article 17799: o-ring set 2 t-line
Article 17288: o-ring set special t-line
Article 17289: valve/valve caps set t-line
Article 17641: metal case assortment set t-line

This new tower replaces these older versions and contains all the most used materials.



Replacement parts/Accessories O-ring set 1 T-line 17287

O-ring 04.47x1.78 groen11111
O-ring 06.07x1.63 groen11190
O-ring 06.07x1.78 groen11119
O-ring 06.65x2.70 groen11182
O-ring 06.70x1.80 groen11184
O-ring 06.80x1.90 groen11185
O-ring 06.95x2.20 groen13495
O-ring 07.00x1.50 groen11106
O-ring 07.66x1.78 groen10447
O-ring 08.00x2.00 groen11112
O-ring 09.20x2.62 groen11160
O-ring 09.25x2.39 groen11114
O-ring 10.00x2.50 groen11120
O-ring 10.00x2.62 groen14076
O-ring 10.77x2.62 groen11161
O-ring 10.82x1.78 groen11133
O-ring 11.11x1.78 groen11159
O-ring 13.80x2.40 groen11169
O-ring 13.94x2.62 groen10352
O-ring 14.00x1.78 groen11140
O-ring 15.54x2.62 groen11170
O-ring 17.00x2.00 groen11149
O-ring 17.17x1.78 groen11148
O-ring 20.00x2.40 groen11156
O-ring 20.22x3.53 groen11176



Replacement parts, accessories O-ring set 2 T-line 17799

O-ring 04.47x1.33 groen11179
O-ring 04.70x1.42 groen11189
O-ring 04.80x1.50 groen10850
O-ring 06.60x2.00 groen11118
O-ring 07.50x2.50 groen11098
O-ring 07.65x1.63 groen11191
O-ring 07.80x1.90 groen11187
O-ring 08.00x1.80 groen11229
O-ring 08.80x1.90 groen11188
O-ring 09.25x1.78 groen11128
O-ring 09.50x2.50 groen11233
O-ring 10.12x1.85 groen11116
O-ring 10.80x2.40 groen11157
O-ring 12.00x2.50 groen11155
O-ring 13.40x1.78 groen11230
O-ring 13.60x2.40 groen11132
O-ring 13.70x2.50 green17558
O-ring 14.25x2.20 groen10157
O-ring 14.25x2.40 groen13497
O-ring 14.88x1.88 groen11186
O-ring 16.00x1.78 groen11143
O-ring 16.20x2.50 green17557
O-ring 17.12x2.62 groen10450
O-ring 18.72x2.62 groen11172
O-ring 21.80x3.53 groen11178
g = 1100/10100 groom 11111110



ASSORTMENTS





Replacement parts/Accessories O-ring set special T-line 17288

O-ring 07mm11016
O-ring 08mm11019
O-ring 11mm11223
O-ring 12mm11020
O-ring 13mm11224
O-ring 13mm11017
O-ring 16mm11018
O-ring tule 0610645
O-ring tule 0810646
O-ring tule 1010647
O-ring tule 1210648
O-ring 16mm11225
O-ring metal 08mm11200
O-ring metal 11mm11201
O-ring metal 15mm11212
O-ring metal 17mm11202

Replacement parts/Accessories Valve/valve cap set T-line 17289

Valve 1234YF	14682
Valve Audi	12889
Valve Eaton 10mm	10297
Valve Eaton 8mm	10295
Valve JRA HNBR	10293
Valve M8 Peugeot/Volvo	12881
Valve M8x1 1234YF EPDM	16339
Valve Renault	12882
Valve Core standard	11280
Valve Core removal tool small 2 size	s.11994
Valve cap M8x1.0 short	15292
Valve cap HD M10x0.75 long	16808
Valve cap HD M10x1.25 short	16806
Valve cap LD M8x1.0 long	16807
Valve cap LD M9x1.0 short	16805

17289

Flaretite seals

Professional seal made of copper with a baked-on Loctite sealant.





Replacement parts/Accessories

Flaretite ¼"	18234
Flaretite 3/8"	18235
Flaretite ½"	18236
Flaretite 5/8"	18237
Flaretite ¾"	12838



`ASSORTMENTS



Airsept ultima compressor guard assortment

New or reconditioned compressors are regularly damaged by metal shavings or dirt particles left in an air conditioning system. A simple screen in the suction line of the new compressor can prevent this from happening.

Easy to install without cutting lines.

This means no chance of leakage. Is installed by means of a simple hand press and removed using a special puller. Recommended by several Automotive OEM's.



ASSORTMENTS

Replacement parts/Accessories

Screen 10.03 mm. 0.395" BD K5.....12813 Screen 10.26 mm. 0.404" BD K5.....12814 Screen 11.07 mm. 0.436" BD K5.....12815 Screen 11.76 mm. 0.463" BD K5.....12816 Screen 11.96 mm. 0.471" BD K5.....10516 Screen 12.50 mm. 0.492" BD K5.....12817 Screen 12.70 mm. 0.500" BD K5.....12818 Screen 12.95 mm. 0.510" BD K5.....10041 Screen 13.23 mm. 0.521" BD K5.....10517 Screen 13.49 mm. 0.531" BD K5.....10512

Replacement parts/Accessories

Screen 13.67 mm. 0.538" BD K5.....10513 Screen 14.02 mm. 0.552" BD K5.....10043 Screen 14.25 mm. 0.561" BD K5.....12819 Screen 14.70 mm. 0.579" BD K5.....12820 Screen 14.93 mm. 0.588" BD K5.....12821 Screen 15.11 mm. 0.595" BD K5.....10042 Screen 15.24 mm. 0.600" BD K5.....12822 Screen 15.70 mm. 0.618" BD K5.....10514 Screen 16.48 mm. 0.649" BD K5.....10515 Screen 20.85 mm. 0.821" BD K5.....12778

13592

Orifice tube assortment

Comprehensive assortment automotive a/c orifice tubes. Contains variations. Total contents: 50 pieces.





11865 Adapter 14 mm x ¼"



12686 Adapter HP Extension R134a



14351 Adapter 12 mm x ¼"



14606 Adapter LP Extension R134a



14817 Adapter 12 mm x 3/8" SAE MF



11981 Retrofit port straight HP 3/16"



11982 Retrofit port 90° HP 3/16"



11983 Retrofit port 90°LP ¼"



11979 Retrofit port straight HP 1/4"



11984 Retrofit port 90° HP 1/4"



Retrofit port straight LP ¼" Adapter U2-6 3/8"MF x 3/8"MF



10602



11617 Adapter ¼"MF x ¼"FF Swivel Adapter MV-9611 T-1/4"FF x ¼"MFx1/4"MF Adapter UR3-64 3/8"FF x ¼"MF



11620



11680



12456 Adapter UR-3-046 ¼"Fx3/8"M



15366 Adapter 1/4"MF x 5/16"FF Adapter ¼"FF x ACME Male





14672 Adapter UR2-64 3/8"MF x 1/4"MF





15325 Adapter 1/8"NPT M x LH ½" ACME- Adapter U4-6 16M (CGA166)



ADAPTERS



17188
Service valve adapter R1234YF
LPx1/4" FF



16182 Service valve adapter R1234YF



11864 Adapter ACME.F x 1/4"MF HPx1/4" FF



11866 Adapter U1-06M14 14mm x 3/8"MF



12067 Adapter flare O-ring #08 steel



14903 Service valve adapter 1234 x 1/4" MF HP



14902 Service valve adapter 1234 x 1/4" MF LP



12003 Adapter 1/2" F ACME swivel x 1/4"MF



13398 Adapter 3/8" SAE FF swivel x HP



17556 Adapter UR2-104 5/8" MF x 1/4" MF



16344 Tank adapter 1/4" MF SAE x 21.8mm Left thread



17559 Adapter UR2-84 1/2" MF - 1/4" MF



11534 Adapter U3-6A 3/8" MF x 1/8" FPT



16454 Adapter 1/4" MF x 5/16" FF swivel



16332 Adapter 3/8" UNF x 1234YF LP service port



15872 Adapter R134a HP x 1/4" SAE F Hi-flow



12065 Adapter flare O-ring #10 steel



12066 Adapter flare O-ring #06 steel



HOSE REPAIR

Burgaclip pliers

Unicorn offers many different Burgaclip fittings. These fittings are specified by fitting size and the hose size. We offer fittings with a service valve for R134a, splicers to connect multiple hoses and fittings with connections for compressors. To assemble the Burgaclip fittings you need Burgaclip manual mounting pliers. The pliers seal the clamps correctly to the hose. The blue clamp cage helps seal the clamps at the correct place.



Below you can find a menu for every type of Burgaclip fitting, we have in our portfolio. All fittings are meant for reduced barrier hoses.

Fitting sizes	Thread and measured outer thread	Hose sizes	Inner diameter
#06	5/8"-18UNF avg. 15,88mm	#06	5/16" of 8mm
#08	3/4"-16UNF avg. 19,05mm	#08	13/32" of 10mm
#10	7/8"-14UNF avg. 22,23mm	#10	1/2" of 13mm
#12	1 1/16"-4UNF avg. 26,99mm	#12	5/8" of 16mm



Reduced barrier A/C Hose in any desired length

11601	Hose #06	
11602	Hose #08	
11603	Hose #10	
11604	Hose #12	
11298	Hose #14	

Kop. XX	Fitting size XX	VZ	Inner ring O-ring
"0"	O-ring fitting	BU	Outer thread O-ring
Flare	Flarefitting	ST	Steel fittig
(M)	Male fitting	Compr	Compressor fitting
(F)	Female fitting	SV R134a	Service valve R134a
180°	straight fitting	Gmoer	Zonder moer
45°	45°fitting	90° blok	block type 90°fitting
90°	90° fitting	HD	High pressure
SLXX	Siz hose XX	LD	Low pressure



00

180° fitting '0" (F) for hose

	-	V- 1		1.1	7
11361	Кор.	06	SL	06	
11362	Кор.	08	SL	08	
11363	Кор.	10	SL	10	
11364	Кор.	12	SL	12	
11365	Кор.	06	SL	08	
11366	Кор.	08	SL	06	
11367	Кор.	08	SL	10	
11368	Кор.	10	SL	08	
11369	Кор.	10	SL	12	
11370	Кор.	12	SL	10	



90° blok "O" (F) for hose

11441	Кор.	06	SL	06
11442	Кор.	08	SL	08
11443	Кор.	10	SL	10
11444	Кор.	12	SL	12



11371

11372

45' fitting "0" (F) for hose

Kop. 06 SL 06

Kop. 08 SL 08

90° blok "0" (F) SV R134a for hose

DO DION O	1.12.	14.14	110	101	1103	
11445	Кор.	06	SL	06	HD	
11446	Кор.	08	SL	08	HD	
11447	Кор.	10	SL	10	LD	



180° fitting "0" VZ (M) for hose

	0.111		1	1501 11	٩
11337	Кор.	06	SL	06	
11338	Кор.	08	SL	08	
11339	Кор.	10	SL	10	
11340	Кор.	12	SL	12	



45° fitting | "0" VZ (M) | for hose 11341 Kop. 06 SL 06



90° fitting | "0" (F) for hose 3

11379	Кор.	06	SL	06
11380	Кор.	08	SL	08
11381	Кор.	10	SL	10
11382	Кор.	12	SL	12
11383	Кор.	06	SL	08
11384	Кор.	08	SL	06
11385	Кор.	08	SL	10
11386	Кор.	10	SL	08
11387	Кор.	10	SL	12
11388	Кор.	12	SL	10



180° | fitting "0" (F) SV R134a for hose

11398	Кор.	06	SL	06 HD
11399	Кор.	08	SL	08 HD
11400	Кор.	10	SL	10 LD
11401	Кор.	12	SL	12 LD
11402	Кор.	08	SL	10 LD



360° fitting | "0" (F) for hose

Кор.	06	SL	06
Кор.	08	SL	08
Кор.	10	SL	10
Кор.	12	SL	<i>12</i>
	Кор. Кор.	Кор. 08 Кор. 10	Kop. 06 SL Kop. 08 SL Kop. 10 SL Kop. 12 SL



45° fitting "0" (F) SV R134a for hose

11405	Кор.	08	SL	08	HD
11407	Кор.	12	SL	12	LD



90° | fitting "0" (F) SV R134a for hose

11408	Kop. 06 SL 06 HD
11417	Kop. 06 SI 08 HD





90° blok "0" (F) for hose

11441	Кор.	06	SL	06
11442	Кор.	08	SL	08
11443	Кор.	10	SL	10
11444	Кор.	12	SL	12



90° blok "0" (F) SV R134a for hose

11445	Кор.	06	SL	06	HD
11446	Кор.	08	SL	08	HD
11447	Кор.	10	SL	10	LD



180° fitting "O" VZ (M) for hose

11337	Кор.	06	SL	06
11338	Кор.	08	SL	08
11339	Кор.	10	SL	10
11340	Кор.	12	SL	12



45° | fitting "0" VZ (M) for hose 11341 Kop. 06 SL 06





90° fitting J "O" VZ (M) for hose

11345	Кор.	06	SL	06
11346	Кор.	08	SL	08
11347	Кор.	10	SL	10
11348	Кор.	<i>12</i>	SL	12



45° | fitting | "O" BU (M) for hose |

11357	Кор.	06	SL	06
11359	Кор.	10	SL	10



180° | fitting "0" BU (M) for hose

11349	Кор.	06	SL	06
11350	Кор.	08	SL	08
11351	Кор.	10	SL	10
11352	Кор.	<i>12</i>	SL	12



90° fitting | "0" BU (M) for hose

11353	Кор.	06	SL	06
11354	Кор.	08	SL	08
11355	Кор.	10	SL	10
11356	Кор.	12	SL	12





180° fitting | "0" compr. for hose

11389 Kop. 10 SL 08 11390 Kop. 10 SL 10



45° | fitting "0" compr. for hose

11392 Kop. 10 SL 08

11394 Kop. 10 SL 12



90° fitting "0" compr. for hose

11395 Kop. 10 SL 08 11396 Kop. 10 SL 10



180° | fitting "0" compr. SV R134a for hose

11432 Kop. 10 SL 08 HD





90° | fitting "0" compr. SV R134a for hose

11438	Кор.	10 SL	08	HD
11439	Кор.	10 SL	10	HD
11440	Кор.	10 SL	<i>12</i>	LD



fitting "O" gnut for hose 3

5	Кор.	06	SL	06
6	Кор.	08	SL	08
7	Кор.	10	SL	10
8	Кор.	12	SL	12
				12
0	Кор.	12	SL	10



45° fitting "0" gnut for hose

11421	Кор.	06	SL	06
11422	Кор.	08	SL	08
11423	Кор.	10	SL	10
				12
11425	Кор.	12	SL	10





90° | fitting "0" gnut for hose

11426	Кор.	06	SL	06
11427	Кор.	08	SL	08
11428	Кор.	10	SL	10
11429	Кор.	12	SL	12
11430	Кор.	10	SL	12
11431	Кор.	12	SL	10



180° | fitting bulkhead for hose

11453	Кор.	06	SL	06
11454	Кор.	08	SL	08
11455	Кор.	10	SL	10





180° fitting brazing or hose

11449	Кор.	06	SL	06
11450	Кор.	08	SL	08
11451	Кор.	10	SL	10
11452	Кор.	12	SL	12





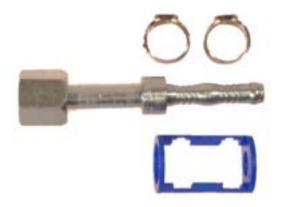
90° | fitting bulkhead for hose

11457	Кор.	06	SL	06
11458	Кор.	08	SL	08
11459	Кор.	10	SL	10
11460	Кор.	12	SL	12



90° fitting flare (F) for hose

11485	Kop. 06 SL 06
11486	Kop. 08 SL 08
11487	Kop. 10 SL 10
11488	Kop. 12 SL 12
11489	Kop. 04 Sl 06
11491	Kop. 08 SL 10
11492	Kop. 10 SL 08
11493	Kop. 10 SL 12



180° fitting flare (F) for hose

11469	Kop. 06 SL 06
11470	Kop. 08 SL 08
11471	Kop. 10 SL 10
11472	Kop. 12 SL 12
11473	Kop. 04 Sl 06
11474	Kop. 06 SL 08
11475	Kop. 08 SL 06
11476	Kop. 08 SL 10
11477	Kop. 10 SL 08
11478	Kop. 10 SL 12



45° fitting flare (F) for hose

11479	Кор.	06	SL	06
11480	Кор.	08	SL	08
11481	Кор.	10	SL	10
11482	Кор.	12	SL	12
11483	Кор.	10	SL	08





Splicer slang hose to hose

11324	SL 06 SL 06
11325	SL 08 SL 08
11326	SL 10 SL 10
11327	SL 12 SL 12
14551	SL 14 SL 14



Splicer slang hose to hose |34a

11320	SL 06 SL 06 HD
11321	SL 08 SL 08 HD
11322	SL 10 SL 10 LD
11323	SL 12 SL 12 LD



SpliceT-piece

11316	SL	06	SL	06	SL	06
11317	SL	08	SL	08	SL	08
11318	SL	10	SL	10	SL	10
11319	SL	12	SL	12	SL	12



REPAIR

180° fitting | ORFS (F) | to hose

12863	SL 06 SL 06
12864	SI 08 SI 08



Tube 12991 12992



Tube for hose steal

12991	L 3/8"	SL 06
12992	L 1/2"	SL 08
12993	L 5/8"	SL 10
12994	L 3/4"	SL 12



Lokclip aluminum for hose

13030	9.53	NK LCR AL 50
13040	13	NK LCR AL 50
13041	16	NK LCR AL 50
13042	19	NK LCR AL 50

Lokclip steel or hose;

13043	9.53 NK LCR ST 50
13044	12.7 NK LCR ST 50
13045	16 NK LCR ST 50
13046	19 NK LCR ST 50



O-ring

10069	0-ring #06
10077	0-ring #08
10085	0-ring #10
10092	0-ring #12



Flarering

11672	Flarering	#04
11674	Flarering	#06
11675	Flarering	#08
11670	Flarering	#10
11676	Flarering	# 12



HOSE REPAIR

TNT-8 A/C hose crimping system

De TNT-8 is a professional a/c hose crimper that makes a near perfect, OE style crimp - using the 8 easy to change jaws.

These TNT-8 series crimpers are available in configurations versions - but the base stays the same. An aircraft grade aluminum base houses 8 die segments that arre easy to change. The 8 die segments flawlessly move to the center of the tools when operated. This provides a near perfect OE style crimp.

14036

TNT-8 with UHTM

This (MOSI) TNT-8 variation is operated - unique in the world - by a miniature hydraulic pump fitted on the unit. This pump is then powered by ... a (wireless) drill / screwdriver available in every workshop



APT-100 air over hydraulic pump

The air hydraulic pump for the TNT-8 with UHTM. Simply connect to compressed air on one side, and on the TNT-8 / UHTM on the other side. A foot on the foot pedal puts the combination into operation.









HOSE REPAIR

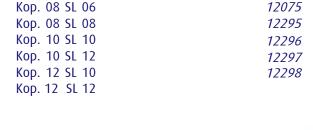
Crimping fittings

All crimp fittings presented in this catalog are intended for thick-walled hoses unless specifically stated otherwise. We also have crimp fittings for thin walled hoses.



180° fitting "0" (F) for hose

12281	Kop. 06 SL 06
12282	Kop. 08 SL 06
12283	Kop. 08 SL 08
12284	Kop. 10 SL 10
12285	Kop. 10 SL 12
12286	Kop. 12 SL 10
12287	Kop. 12 SL 12





90° | fitting '0" (F) for hose Kop. 06 SL 06

12077	Kop. 08 SL 08
12078	Kop. 10 SL 10
12308	Kop. 08 SL 10
12309	Kop. 10 SL 12
12310	Kop. 12 SL 10
12311	Kop. 12 SL 12

12076



45° fitting "0" (F) for hose

Kop. 06 SL 06

Kop. 08 SL 08

Kop. 10 SL 10

Kop. 05 SL 06 Kop. 10 SL 12

Kop. 12 SL 10

Kop. 12 SL 12

12073

12074

180° fitting "0" (F) SV R134a rfor hose

12326	Kop. 06 SL 06 HD
12327	Kop. 08 SL 08 HD
12328	Kop. 10 SL 10 LD
12329	Kop. 10 SL 12 LD
12330	Kop. 12 SL 12 LD





45° fitting "0" (F) SV R134a for hose

12335 Kop. 06 SL 06 HD 12336 Kop. 08 SL 08 HD 12337 Kop. 10 SL 10 LD 12338 Kop. 10 SL 12 LD



180° | fitting 0" compr. for hose

12312 Kop. 10 SL 08 12313 Kop. 10 SL 10 12314 Kop. 10 SL 12



180° fitting "0" compr. SV R134a for hose

12363 Kop. 10 SL 08 HD 12364 Kop. 10 SL 10 12365 Kop. 10 SL 12 LD



90° fitting '0" (F) SV R134a for hose

12343 Kop. 06 SL 06 HD 12344 Kop. 08 SL 08 HD 12345 Kop. 10 SL 10 LD 12346 Kop. 12 SL 12 LD



90° fitting "0" compr. for hose

12318 Kop. 10 SL 08 12319 Kop. 10 SL 10 12320 Kop. 10 SL 12



45° fitting "0" compr. SV R134a for hose

12366 Kop. 10 SL 08 HD 12367 Kop. 10 SL 10 LD 12368 Kop. 10 SL 12 LD





90° fitting "0" (F) SV R134a for hose

Kop. 10 SL 08 HD 12369 12370 Kop. 10 SL 10 HD Kop. 10 SL 12 LD 12371



180° | fitting "0" VZ (M) for hose

Kop. 06 SL 06 12079 Kop. 08 SL 08 12080 Kop. 10 SL 10 12081



90° fitting "0" VZ (M) for hose

Kop. 06 SL 06 12220 Kop. 08 SL 08 12221 Kop. 10 SL 10 12222



90° blok "0" (F) for hose

Kop. 06 SL 06 12372 Kop. 08 SL 08 12373 Kop. 10 SL 10 12374 Kop. 12 SL 12 12375



45° | fitting "0" VZ (M) | for hose

Kop. 06 SL 06 12213

Kop. 10 SL 10 12215



180° | fitting "0" BU (M) for hose

Kop. 06 SL 06 12227 Kop. 08 SL 08 12228 Kop. 10 SL 10 12229





45° | fitting "0" BU (M) for hose

 12242
 Kop. 06 SL 06

 12243
 Kop. 08 SL 08

 12244
 Kop. 10 SL 10

 12245
 Kop. 12 SL 12



180° | fitting "0" gmoer for hose

 12351
 Kop. 06 SL 06

 12352
 Kop. 08 SL 06

 12353
 Kop. 08 SL 08

 12354
 Kop. 12 SL 10



90° I fitting "0" gmoer for hose

12359 Kop. 06 SL 06

12361 Kop. 08 SL 08 12362 Kop. 12 SL 10



90° | fitting | "0" BU (M) for hose

 12234
 Kop. 06 SL 06

 12235
 Kop. 08 SL 08

 12236
 Kop. 10 SL 10

 12237
 Kop. 12 SL 12



45° | fitting "0" gmoer for hose

12355 Kop. 06 SL 06

12357 Kop. 08 SL 08 12358 Kop. 12 SL 10



Splicer Hose for hose

12009	SL	06	SL	06
12454	SL	80	SL	08
12010	SL	10	SL	10
10028	SL	12	SL	12



Splicer T-stuk

13438	SL	06	SL	06	SL 06
13437	SL	80	SL	80	SL 08
11524	SL	10	SL	10	SL 10
11525	SI	12	SI	12	SI 12



Splicer Hose for hose SV R134a

11985	SL	06	SL	06	HD
11986	SL	80	SL	08	HD
11987	SL	10	SL	10	LD



Hose for hose

12398	L 3/8"	SL 06
12399	L 1/2"	SL 08
12400	L 5/8"	SL 10
12401	L 3/4"	SL 12



HOSE REPAIR

Lokring

Tube repair with the lokrings gives a decent and good looking result. Any damaged tubes can easily be fixed with the Lokrings system. Unicorn offers a wide variety: the standard, tee and reducer lokrings. We also have them with a integrated service valve. The entire product range can be found in the table below. To assemble the lokrings you need a special "hand mounting rod" and the right assembly jaws. They come in different sizes, which can also be found in the table. Last but not least you will need a small bottle of Lokprep.















Lokbox		Standard Aluminum		Reduce Aluminum	
17566	Lokbox basis airco	17039	6 NK AL 00	12186	8.5/8 NR AL 50
		10617	6 NK AL 50	12187	9/8 NR AL 50
		13422	7 NL AL 50	12188	9.53/8 NR AL 50
		12092	8 NK AL 50	13393	9.53/8.5 NR AL 50
	5	12093	9.53 NK AL 50	1000000	The second second
ring service valve R-	8	12094	10 NK AL 50	12189	10/8 NR AL 50
14143	8 NK AL sv HD	10033	11 NK AL 50	12450	10/9.53 NR AL 50
11100	9.53 NK AL sv HD	12095	12 NK AL 50	12455	11/9.53 NR AL 50
13941	10 NK AL sv HD	15912	12.7 NK AL 50	12191	11/10 NR AL 50
13894	10 NK AL sv LD	10034	14 NK AL 50	12451	12/9.53 NR AL 50
14583	12 NK AL sv HD	12097	15 NK AL 50	12192	12/10 NR AL 50
13895	16 NK AL sv LD	12098	16 NK AL 50	10036	12.7/12 NR AL 50
13896	19 NK AL sv LD	10031	18 NK AL 50	12193	13/9.53 NR AL 50
3	2	12177	19 NK AL 50	12194	13/10 NR AL 50
6	4 3	10032	22 NK AL 50	12195	14/10 NR AL 50
		1000000		12453	16/9.53 NR AL 50
				14635	16/10 NR AL 50
Lokelip Aluminum	And the second second second	Lokelip Steel		12196	16/13 NR AL 50
13030	9.53 NK LCR AL 50	13043	9.53 NK LCR ST 50	12099	16/15 NR AL 50
13040	13 NK LCR AL 50	13044	12.7 NK LCR ST 50	14165	17/16 NR AL 50
13041	16 NK LCR AL 50	13045	16 NK LCR ST 50	10475	19/16 NR AL 50
13042	19 NK LCR AL 50	13046	19 NK LCR ST 50	10035	19/18 NR AL 50
V.1-2		-		Description.	
Tube/hose fitting	T. b. 2000 base C	Tee Aluminum	ADAPTIC AL ED	Repair fitting	200 41 00 104 44 011
12398	Tube 3/8" hose 6	14234	10 NTK AL 50	13055	3/8" AL 06 'O' (M) BU
12399	Tube 1/2" hose 8	13595	16 NTK AL 50	13056	1/2" AL 08 'O' (M) BU
12400	Tube 5/8" hose 10			13057	5/8" AL 10 'O' (M) BU
12401	Tube 3/4" hose 12			13058	3/4" AL 12 'O' (M) BU
15521	Tube 13 hose 8 45-			13047	3/8" AL 06 'O' (M) VZ
13915	Tube 16 hose 10 90-			13048	1/2" AL 08 'O' (M) VZ
<u> </u>				13049	5/8" AL 10 'O' (M) VZ
Colorado Administra		The desired the second		13050	3/4" AL 12 'O' (M) VZ
.okprep/ Abrasive pa		Hand mounting rods		13051	3/8" AL 06 'O' (F)
12101	Lokprep 65G 15ml	10051	Standard	13052	1/2" AL 08 'O' (F)
10183	Abrasive pad	10029	Heavy	13053	5/8" AL 10 'O' (F)
11		13906	Joint	13054	3/4" AL 12 'O' (F)



HOSE REPAIR

Airsept Smart Splice

An air conditioning system pipe can become damaged or even break. With the Smart Splice system, however, these problems are easily remedied. The sealing ring has ten times the sealing area of a standard O-ring, and the kits also include a standard antivibration clamping ring. This combination ensures a durable repair.

Cut the pipe to be repaired neatly with a pipe cutter, clean it and install the Smart Splice. It is even possible to remove it again!

14237

Deburring tool

15217

T-line tube cutter 1/8" – 5/8"

10183

Abrasive sponge







Smartsplice straight fitting

13320	5/16"
13319	3/8"
13318	1/2"
13601	5/8"
14350	3/4"
15658	8 mm
13999	10 mm
14000	12 mm
14349	15 mm
15659	16 mm

Smartsplice adapter

15645	3/8" - 5/16"
15646	1/2" - 5/16"
15647	1/2" - 3/8"
15660	12 - 10 mm



Smartsplice 45° fitting

15650	5/16"
15649	3/8"

15652 3/4"



Smartsplice 90° fitting

15654	3/8"
15653	1/2"
15656	5/8"





Smartsplice straight fitting LP service port

14402	3/8"
14403	1/2"
14404	5/8"
14405	10 mm
14406	12 mm
11407	15 mm
14408	16 mm



Smartsplice line terminator

14778	5/16"
14779	3/8"
15664	1/2"
14780	5/8"
15565	3/4"
15666	8 mm
15667	10 mm
15668	12 mm
15669	15 mm
15670	16 mm



Smartsplice straight fitting HP service port

14409	5/16"
14410	3/8"
14411	1/2"
15673	8 mm
14413	10 mm
14414	12 mm
14415	15 mm





Smartsplice hose splicer aluminum

15985	#06 - #06
15986	#08 - #08
15987	#10 - #10
15988	#12 - #12





Smartsplice hose splicer aluminum



	1 - 1 - 1 - 1 - 1 - 1 - 1
Article	Hose/tube smart splice set
15675	Straight 5/16" for hose #06
15676	Straight 3/8" for hose #06
15677	Straight 1/2" for hose #08
15678	Straight 5/8" for hose #10
15679	Straight 3/4" for hose #12
15989	Adapter 90° 5/16" for hose #06
15990	Adapter 90° 3/8" for hose #06
15991	Adapter 90° 1/2" for hose #08
15992	Adapter 90° 5/8" for hose #10
15993	Adapter 45° 5/16" for hose #06
15994	Adapter 45° 3/8" for hose #06
15995	Adapter 45° 1/2" for hose #08
15996	Adapter 45° 5/8" for hose #10

Article	Assortment
14400	Smart Splice four pack
15538	Smart Splice five pack
15661	Smart Splice ten pack metric
15671	Smart Splice leiding stop SAE five pack
15672	Smart Splice leiding stop SAE/ metric ten pack
13362	Smart Splice Masterset 1/2", 3/8" & 5/16"

15227

Wrench set

The Smart Splices are easy to attach with wrenches! No special tools are required

