



Refrigerant Analysis Solutions

Products Catalog and Guide for Automotive, Commercial HVACR, Military & Customs Applications





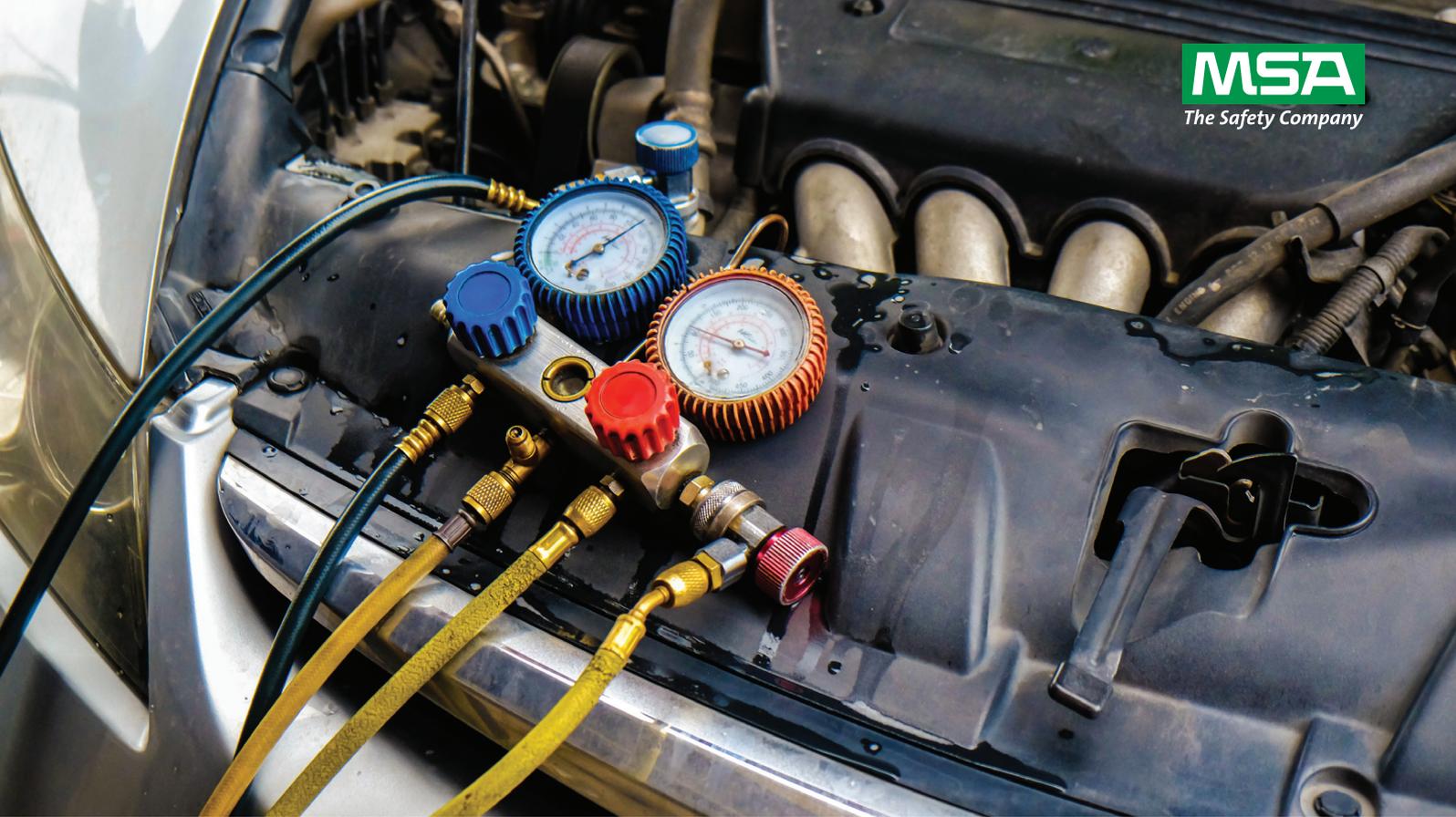
MSA for Refrigerant Identification

Refrigerant identification was first developed in the 1990's when the mobile air conditioning market transitioned away from R-12 refrigerant to R-134a. Since then, the environmental impacts of refrigerant continue to drive evolution with new refrigerants entering the market all the time. It is important to test refrigerant to ensure safety, efficiency, and optimize cooling. MSA's refrigerant identifiers, powered by Neutronics technology, are the established leader for the global Automotive and HVACR industries.

Mobile Air Conditioning service is always evolving. One of the latest advances is the use of R-1234yf refrigerant to cool a vehicles cabin. Prior to the introduction of R-1234yf, mechanics were servicing vehicles equipped with R-12 or R-134a. But with the high ozone depletion potential (ODP) nature of R-12 and the high global warming potential (GWP) of R-134a came an industry demand for something more environmentally sustainable.

With tens of millions of vehicles equipped with R-1234yf falling out of warranty each year, it is imperative for technicians to have the tools required to service these vehicles.





New Regulations Require New Tools

With the adoption of this new refrigerant comes new regulations and required tools. One of the newest tools in a mechanics kit will be the use of a refrigerant identifier. Prior to recovering refrigerant for A/C service a mechanic will need to complete a refrigerant analysis to confirm refrigerant quality.

The Importance of Refrigerant Identification

In a perfect world the vehicle manufacturer's installed refrigerant would be the only refrigerant you would expect to find under the hood. However, refrigerant contamination can occur at any point after the vehicle leaves the production line and can lead to:

- Cooling loss
- Seal swelling
- A/C System degradation
- Mechanic or vehicle operator risk

Be Safe. Be Certain.

Whether the refrigerant is incorrect, or mixed, the only way to be certain of what refrigerant is in that system is to test the gas. Refrigerant identifiers are the only sure way to confirm quality before completing automotive A/C service. Refrigerant identifiers protect the mechanic, your equipment, and ensure the service is done right. Refrigerant tampering in new vehicles utilizing R-1234yf is considered emissions tampering, and analyzing the refrigerant in the vehicle confirms emission standards are met, and A/C systems are serviced correctly.

SAE standards for R-1234yf service tools

SAE International, initially established as the Society of Automobile Engineers and later becoming the Society of Automotive Engineers, is a US-based, globally active professional association and standards developing organization for engineering professionals in various industries. With the introduction of R-1234yf, SAE established new standards for servicing vehicles with R-1234yf. These new standards require a SAE J2843™ or SAE J3030™ approved A/C Service Machine (RRR), a SAE J2913™ Leak Detector, a SAE J2912™ or SAE J2927™ refrigerant analyzer, and a SAE J2851™ recovery machine.

Built-in refrigerant identifiers or hand-held?

Built-in refrigerant identifiers:

These are SAE J2927™ and SAE J2912™ certified refrigerant analyzers that are built into RRR A/C Service Machine. This simplifies the whole process and creates one system to both identify, recover, recycle and recharge the refrigerant during A/C Servicing.

Hand-held refrigerant identifiers:

The Legend Series R-1234yf/R-134a a SAE J2912™ portable refrigerant analyzer that provides a little more flexibility in the shop. This device allows you to have multiple recovery machines (without built-in identifiers), and take one analyzer machine to machine, rather than lugging around one machine from bay to bay. The hand-held devices allow technicians to pre-check vehicles, without having to connect the RRR service cart, reducing evaluation time and helping to sort vehicles before servicing.

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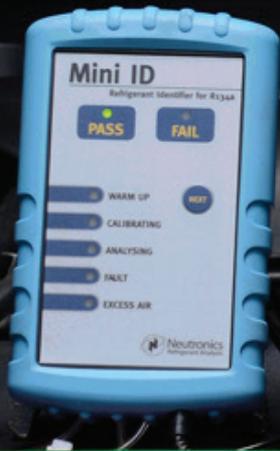
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Automotive Refrigerant Analysis

IMPROVING YOUR PERFORMANCE, PROTECTING YOUR ASSETS



Legend Series™ R-1234yf/R-134a

PORTABLE AUTOMOTIVE ANALYZERS FOR R-1234YF, R-134A & R-12

Certified to the SAE J2912 standard and connects directly to SAE J2843 and J3030 A/C Service machines

10 Preprogrammed languages: English, French, German, Italian, Portuguese, Spanish, Chinese, Japanese, Korean and Russian

Optional Bluetooth enabled units available for direct Bluetooth communication with applicable A/C Service Carts.



Clear 5 inch LCD color display

Displays percentage purity of R-1234yf, R-134a, R-12, R-22 and Hydrocarbons

Internal Lithium battery provides full portability and excellent run-time

Optional integrated printer also available-providing clear printable reports for your records

SAE-CERTIFIED REFRIGERANT ANALYZER FOR AUTOMOTIVE APPLICATIONS



More Information:

Scan the QR code to learn more about this and other products built with Neutronics technology.

The Legend is supplied complete with the following as standard:

- Couplers for both R-134a and R-1234yf
- (2) R-1234yf sample hoses
- (2) R-134a sample hoses
- Sample hose extensions

- AC power supply
- Tank adapters for both R-134a and R-1234yf
- Internal rechargeable battery
- Internal air sensor and all required plumbing housed within a rugged, portable, storage case



The award-winning Legend Series™ R-1234yf/R-134a Refrigerant Analyzer is equipped to service R-12, R-134a, and R-1234yf vehicles all in one tool. With advanced infrared technology this is a refrigerant analyzer for the past, present, and future.

The Legend Series™ R-1234yf/R-134a is a worldwide ready tool to meet the service needs of R-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.

- Quickly and accurately determines refrigerant purity
- Displays percentage purity of R-1234yf, R-134a, R-12, R-22 and Hydrocarbons and % air in pure R-1234yf & R-134a
- Capable of testing R-12 with optional R-12 hose accessory
- Easily prints test results with optional printer
- Improved oil resistance with the user replaceable oil restrictor

Application

R-1234yf, R-134a & R-12 Vehicle & Virgin Cylinder Testing

Features

Refrigerants	R-134a, R-1234yf, R-12, R-22, HC, Unknown Refrigerant, Air
Test Time	90 Seconds
Calibration	Automatic
Sample Type	Vapor Only 500 psig max.
Temperature	50–120°F (10–49°C)
Power	100-240 VAC, 50-60 Hz
Warranty	One Year
Interface	USB comes standard with all Legends (SAE J2843 compliant)

Certifications

UL, UKCA, CE, SAE J2912

Accessories

¼" flare (R-12) Fitting P/N 6-02-6001-54-0

Replacement Parts

Replacement R-134a Hose	P/N 6-02-6001-42-0
Replacement R-1234yf Hose	P/N 6-02-6001-43-0
Replacement R-134a Tank Adapter	P/N 4-03-5004-07-0
Replacement R-1234yf Tank Adapter	P/N 6-02-6001-37-0
Replacement AC Power Supply	P/N 6-01-6000-74-0

Legend Series™ R-1234yf/R-134a Part Numbers

DESCRIPTION	PART NUMBER
LEGEND BASE UNIT	H7-08-1234-33-0
LEGEND WITH PRINTER	H7-08-1234-30-0
LEGEND WITH BLUETOOTH	H7-08-1234-31-0
LEGEND WITH PRINTER AND BLUETOOTH	H7-08-1234-32-0

Portable Automotive Identifiers (Pass/Fail)



A GREEN PASS LED is illuminated for R-134a purity greater than 97%

A RED FAIL LED is illuminated for R-134a purity less than 97%

The instrument is supplied complete with an R-134a sample hose, 12 VDC battery clips and all required plumbing housed within a rugged, portable instrument



More Information:

Scan the QR code to learn more about this and other products built with Neutronics technology.

Mini ID R-134a

PORTABLE AUTOMOTIVE REFRIGERANT IDENTIFIER FOR R-134A (P/N 7-08-1000-62-0)

The low cost Mini ID™ R-134a Refrigerant Identifier helps verify the presence and quality of R-134a refrigerant in vehicle A/C systems. Avoid potential damage to your A/C service equipment and protect your business from refrigerant contamination. Ideal device for pre-checking a vehicle's refrigerant before connecting an A/C service machine.

- Easy to use with 'PASS' or 'FAIL' LED indication
- 'FAULT' and 'EXCESS AIR' LEDs
- Step by step LED indications of the gas sampling process
- Compact and lightweight design
- Rugged construction and housing
- Hand-held and extremely portable
- Built in Mechanical Pump

Application

R-134a Vehicle & Virgin Cylinder Testing

Features

Refrigerants	R-134a
Test Time	100 Seconds
Calibration	Automatic
Sample Type	Vapor Only 300 psig max.
Temperature	50–120°F (10–49°C)
Power	12 VDC
Warranty	One Year

Certifications

UL, UKCA, CE, SAE J1771, RoHS

Accessories

R-134a Tank Adapter P/N H4-03-5004-07-0

Replacement Parts

Replacement Flow Restrictor Hose H6-01-6001-23-1

Replacement Flow Restrictor Hose- 3 Pack H6-01-6001-26-0

12 VDC Battery Clips H6-01-6000-75-0



A GREEN PASS LED is illuminated for R-1234yf purity greater than 97%

A RED FAIL LED is illuminated for R-1234yf purity less than 97%

The instrument is supplied complete with an R-134a sample hose, 12 VDC battery clips and all required plumbing housed within a rugged, portable instrument



More Information:

Scan the QR code to learn more about this and other products built with Neutronics technology.

Mini ID R-1234yf

PORTABLE AUTOMOTIVE REFRIGERANT IDENTIFIER FOR R-1234yf (P/N 7-08-1000-64-0)

The low cost Mini ID™ R-1234yf Refrigerant Identifier helps verify the presence and quality of R-1234yf refrigerant in vehicle A/C systems. Avoid potential damage to your A/C service equipment and protect your business from refrigerant contamination. Ideal device for prechecking a vehicle's refrigerant before connecting an A/C service machine.

- Easy to use with 'PASS' or 'FAIL' LED indication
- 'FAULT' and 'EXCESS AIR' LEDs
- Step by step LED indications of the gas sampling process
- Compact and lightweight design
- Rugged construction and housing
- Hand-held and extremely portable
- Built in Mechanical Pump

Application

R-1234yf Vehicle & Virgin Cylinder Testing

Features

Refrigerants	R-1234yf
Test Time	100 Seconds
Calibration	Automatic
Sample Type	Vapor Only 300 psig max.
Temperature	50–120°F (10–49°C)
Power	12 VDC
Warranty	One Year

Certifications

UL, UKCA, CE, RoHS

Accessories

R-1234yf Tank Adapter P/N 6-02-6001-37-0

Replacement Parts

Replacement Flow Restrictor Hose H6-02-6001-53-1

12 VDC Battery Clips H6-01-6000-75-0

Internal Automotive A/C Embedded Identifiers

USB and RS-232 interfaces provide clear data connections to the A/C service machine



A Mounting bezel provides a visually pleasing finished appearance to the module and allows access to the Sample Filter from the visible surface of the A/C Service Machine



More Information:

Scan the QR code to learn more about this and other products built with Neutronics technology.

EID-1234yf VDA Embedded Identifier

VDA COMPLIANT R-1234yf ANALYZER (P/N 7-08-1234-00-2)

The EID-1234yf VDA Embedded Identifier is designed to meet the requirements of the German VDA and is installed into VDA compliant A/C service machines. The EID-1234yf VDA Embedded Identifier is considered an OEM product supplied to A/C Service machine manufacturers.

Application

Installation into VDA Compliant A/C Service Machines

Features

Refrigerants	R-1234yf
Set Point	95.0%
Output	Pass / Fail
Test Time	60 Seconds
Calibration	Automatic
Interface	USB, RS-232
Sample Type	Vapor Only 300 psig max.
Temperature	50-120°F (10-49°C)
Power	12 VDC
Warranty	One Year

Certifications

UL, UKCA, CE, VDA

Accessories

N/A

Replacement Parts

Replacement Sample Filter	H6-02-6000-08-0
Replacement R-1234yf Flow Restrictor Hose	H6-02-6001-18-1

USB and RS-232 interfaces provide clear data connections to the A/C service machine



A Mounting bezel provides a visually pleasing finished appearance to the module and allows access to the Sample Filter from the visible surface of the A/C Service Machine



More Information:

Scan the QR code to learn more about this and other products built with Neutronics technology.

EID-1234yf SAE J2927 Embedded Identifier

SAE J2843 COMPLIANT R-1234yf ANALYZER (P/N 7-08-1234-02-2)

The EID-1234yf SAE Embedded Identifier is designed to be installed into SAE J2843 compliant A/C service machines. The EID-1234yf SAE Embedded Identifier is considered an OEM product supplied to A/C service machine manufacturers.

Application

Installation into SAE J2843 Compliant A/C Service Machines

Features

Refrigerants	R-1234yf
Set Point	98.0%
Output	R-1234yf, R-134a, R-22, HC, and Air
Test Time	60 Seconds
Calibration	Automatic
Interface	USB, RS-232
Sample Type	Vapor Only 300 psig max.
Temperature	50-120°F (10-49°C)
Power	12 VDC
Warranty	One Year

Certifications

UL, UKCA, CE, SAE J2927

Accessories

N/A

Replacement Parts

Replacement Sample Filter	H6-02-6000-08-0
Replacement R-1234yf Flow Restrictor Hose	H6-02-6001-18-1
Replacement Air Sensor	H1-16-1013-00-2

Internal Automotive A/C Embedded Identifiers

USB and RS-232 interfaces provide clear data connections to the A/C service machine



A Mounting bezel provides a visually pleasing finished appearance to the module and allows access to the Sample Filter from the visible surface of the A/C Service Machine



More Information:

Scan the QR code to learn more about this and other products built with Neutronics technology.

EID-1234yf/134a SAE J2912 Embedded Identifier

SAE J2843 OR J3030 COMPLIANT R-1234yf AND R-134a ANALYZER (P/N 7-08-1234-26-1)

The EID-1234yf /134a SAE Embedded Identifier is designed to be installed into SAE J2843 or J3030 compliant A/C service machines. The EID-1234yf/134a SAE Embedded Identifier is considered an OEM product supplied to A/C service machine manufacturers.

Application

Installation into SAE J2843 or J3030 Compliant A/C Service Machines

Features

Refrigerants	R-1234yf, R-134a
Set Point	98.0%
Output	R-1234yf, R-134a, R-22, HC, and Air
Test Time	60 Seconds
Calibration	Automatic
Interface	USB, RS-232
Sample Type	Vapor Only 300 psig max.
Temperature	50-120°F (10-49°C)
Power	12 VDC
Warranty	One Year

Certifications

UL, UKCA, CE, SAE J2912

Accessories

N/A

Replacement Parts

Replacement Sample Filter	H6-02-6000-08-0
Replacement R-1234yf Flow Restrictor Hose	H6-02-6001-18-1
Replacement Air Sensor	H1-16-1013-00-2

Sealant Detection for Automotive Applications

The kit comes complete with High Side couplers for both R-12 and R-134a systems, 10 disposable cartridges, a flow meter, syringe, and hose, housed in a storage case.



More Information:

Scan the QR code to learn more about this and other products built with Neutronics technology.



QuickDetect A/C Sealant Detection Kit

MOBILE A/C SEALANT DETECTION KIT (P/N 7-08-1000-51-0)

The QuickDetect Refrigerant Sealant Detection Kit helps protect expensive A/C tools by detecting the presence of harmful sealant in mobile A/C systems.

- Quickly verifies if sealant is present in A/C systems
- Prevents possible damage to valuable recovery equipment
- Easy to use fast results
- Disposable, low cost design
- Works on R-134a and R-12 systems

Application

Designed for R-12, R-134a Passenger Vehicle Testing. Capable for testing R-1234yf vehicles with the R-1234yf Coupler (sold separately).

Accessories

R-1234yf Coupler Assembly P/N 6-02-6001-00-1

Replacement Parts

Replacement Cartridges 25 Pack	H7-08-1000-52-0
Spare R-134a Coupler Assembly	H6-02-6001-00-0
Spare R-12 Coupler Assembly	H6-02-6001-01-0
Spare Flow meter	H6-02-6001-02-0

Portable Commercial HVACR Analyzers

PROFESSIONAL REFRIGERANT IDENTIFICATION SOLUTIONS



Legend Series™ HFC Refrigerant Analyzer

DIAGNOSTIC REFRIGERANT ANALYZER FOR MULTIPLE HVAC & REFRIGERATION APPLICATIONS



10 Preprogrammed languages:
English, French, German, Italian, Portuguese, Spanish, Chinese, Japanese, Korean and Russian

Refrigerant selection enabling precision analysis

Extract test data to USB drive

Clear 5 inch LCD color display

Displays percentage purity of R-22, R-32, R-125, R-134a, R-143a, Hydrocarbons, Unknown, and Air in measured refrigerants.

Internal Lithium battery provides full portability and excellent run-time

Integrated printer-providing clear printable reports for your records

ENABLES FAST AND ACCURATE TESTING OF REFRIGERANT



More Information:

Scan the QR code to learn more about this and other products built with Neutronics technology.

DESCRIPTION	PART NUMBER
LEGEND SERIES™ HFC Supplied with: Built-in printer, separate ¼" flare sample hoses for vapor and liquid, an AC power supply, internal LiFe battery and all required plumbing housed within a rugged, portable, storage case	H7-08-1234-40-0



The Legend Series™ HFC Refrigerant Analyzer enables fast, accurate testing of refrigerant, reducing the need for costly and time-consuming gas chromatography. Analyzing a refrigerant before service or use will ensure a systems efficiency and operation while safeguarding the customer and the technician. The use of a refrigerant analyzer creates a cleaner recovery process and reduces the amount of mixed gas recovered. Reducing mix gas recovery will ultimately cut down on the amount of refrigerant that must be destroyed which helps improve the industry's ecological footprint.

A refrigerant analyzer is a valuable tool to safeguard users and equipment, while promoting recycling and reuse to protect the environment. The Legend Series™ HFC is the most advanced refrigerant analyzer in the market and provides the latest in NDIR technology to support refrigerant testing before use. Reduce the uncertainty and analyze every refrigerant before servicing to safeguard yourself, the equipment, and environment.

- Only mobile device to provide a high level of accuracy for measured refrigerants
- Blend analysis for measured R-400 series refrigerants
- Vapor or liquid sampling
- Store test data on external USB drive and remote software updates for new refrigerants

Application

Refrigerant handling, Refrigerant Reclamation, Refrigerant Distribution, HVACR Service, and Customs

Features

Refrigerants	Analyzed Refrigerants (displays % purity): <ul style="list-style-type: none"> • R-22, R-32, R-134a, R-404A, R-407C, R-410A, R-290, R-600, R-600a as HC (Hydrocarbons) and Air Identified Refrigerants (NO % purity): <ul style="list-style-type: none"> • R-12, R-1234yf, R-408A, R-409A, R-417A, R-421A, R-421B, R-422A, R-422B, R-422C, R-427A
Test Time	120 Seconds
Calibration	Automatic
Sample Type	Vapor, Liquid
Temperature	50–120°F (10–49°C)
Power	12 VDC @ 2A via 110/220 VAC, 50 - 60Hz Adapter
Warranty	One Year
Interface	Graphic Display, Soft Keys, Built in Printer

Certifications

CE, UKCA, UL, and CUL

Accessories

N/A

Replacement Parts

A/C Power Supply	H6-01-6000-74-0
Liquid Sample Hose	H6-01-6001-23-1
Liquid Sample Trap	H6-02-6001-17-0
Sample Hose Extensions	H6-02-6001-41-1
Vapor Sample Hose	H6-02-6001-42-0
¼" Flare Coupler	H6-02-6001-54-0

Accessories and Replacement Parts

ACCESSORIES AND REPLACEMENT PARTS FOR REFRIGERANT ANALYZERS



Accessories and Replacement Parts

ACCESSORIES AND REPLACEMENT PARTS FOR REFRIGERANT ANALYZERS

Adapters, Replacement Plugs and Couplers

YF TANK ADAPTER	R-12 ADAPTER	R-134A TANK ADAPTER
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H6-02-6001-37-0
Compatible models
RI-2012yf/yfp, Legend Series,
Mini ID R-1234yf



H6-02-6001-54-0
Compatible models
Legend Series, RI-700H, Mini ID R-22



H4-03-5004-07-0
Compatible models
RI-2012yf/yfp, Mini ID R-134a,
RI-2004DX/DXP, Legend Series

ACSD SEALANT DETECTION 25 PACK REPLACEMENT PLUGS	REPLACEMENT ACSD SEALANT DETECTOR R-134A COUPLER	REPLACEMENT ACSD SEALANT DETECTOR R-1234YF COUPLER
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H7-08-1000-52-0
Compatible models
QuickDetect ACSD Sealant Detector



H6-02-6001-00-0
Compatible models
QuickDetect ACSD Sealant Detector



H6-02-6001-00-1
Compatible models
QuickDetect ACSD Sealant Detector

REPLACEMENT ACSD SEALANT DETECTOR R-12 COUPLER
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H6-02-6001-01-0
Compatible models
QuickDetect ACSD Sealant Detector

Hoses, Filters and Sensors

<p>MINI ID R-1234YF HOSE</p>	<p>LEGEND R-134A HOSE</p>	<p>LEGEND R-1234YF HOSE</p>
		
<p>H6-02-6001-53-1 Compatible models Mini ID R-1234yf</p>	<p>H6-02-6001-42-0 Compatible models Legend Series</p>	<p>H6-02-6001-43-0 Compatible models Legend Series</p>
<p>1/4 INCH FLARE HOSE ASSEMBLY</p>	<p>REPLACEMENT R-134A HOSE</p>	<p>REPLACEMENT R-12 HOSE</p>
		
<p>H6-02-6001-11-0 Compatible models Legend Series, RI-700H</p>	<p>H6-02-6000-09-0 Compatible models RI-2004DX/DXP</p>	<p>H6-02-6000-02-0 Compatible models RI-2004DX/DXP, RI-2004HV/HVP</p>
<p>WHITE SAMPLE FILTER</p>	<p>YF AIR SENSOR</p>	
		
<p>H6-02-6000-08-0 Compatible models RI-2004DX/DXP, RI-2004HV/HVP, RI-2012yf/yfp, RI-700H, EID-SAE, EID-VDA, EID-J2912, EID-ACR14</p>	<p>H1-16-1013-00-2 Compatible models EID-SAE</p>	

Accessories and Replacement Parts

Flow Restrictors, Flowmeters and Syringes

<p>R-1234YF 1.5M REPLACEMENT FLOW RESTRICTOR</p>	<p>R-1234YF 2M REPLACEMENT FLOW RESTRICTOR</p>	<p>R-134A 2M REPLACEMENT FLOW RESTRICTOR</p>
		
<p>H6-02-6001-18-1 Compatible models EID-SAE, EID-VDA, EID-J2912</p>	<p>H6-02-6001-18-4 Compatible models RI-2012yf/yfp</p>	<p>H6-02-6001-32-0 Compatible models RI-2012yf/yfp, EID-ACR14</p>
<p>FLOW RESTRICTOR 3 PACK</p>	<p>A/C SEALANT DETECTION REPLACEMENT FLOWMETER</p>	<p>OIL TRAP SYRINGE</p>
		
<p>H6-01-6001-26-0 Compatible models Mini ID R-134a, Mini ID R-22, RI-700H</p>	<p>H6-02-6001-02-0 Compatible models QuickDetect ACSD Sealant Detector</p>	<p>H6-02-6001-17-0 Compatible models RI-700H</p>

Power supplies, Battery clips and Misc.

<p>ULTIMA ID AC POWER SUPPLY</p>	<p>LEGEND AC POWER SUPPLY</p>	<p>SPARE BATTERY</p>
		
<p>H6-01-6001-13-0 Compatible models RI-2004DX/DXP, RI-2004HV/HVP, RI-700H, RI-2012yf/yfp</p>	<p>H6-01-6000-74-0 Compatible models Legend Series, Mini ID R-22</p>	<p>H6-02-6001-04-0 Compatible models RI-2004DX/DXP, RI-2004HV/HVP</p>
<p>BATTERY KIT (SMART CHARGER AND SPARE BATTERY)</p>	<p>ULTIMA ID 12 VDC BATTERY CLIPS</p>	<p>MINI ID 12 VDC BATTERY CLIPS</p>
		
<p>H6-02-6001-04-1 Compatible models RI-2004DX/DXP, RI-2004HV/HVP</p>	<p>H6-01-6001-08-0 Compatible models RI-2004DX/DXP</p>	<p>H6-01-6000-75-0 Compatible models Mini ID R-134a, Mini ID R-1234yf and Robinair 16900</p>
<p>PRINTER PAPER ROLL</p>	<p>REPLACEMENT USB CABLE</p>	
		
<p>H5-03-1000-08-0 Compatible models RI-2004DXP, RI-2004HVP, RI-2012yf/yfp, RI-700H</p>	<p>H2-06-7000-36-1 Compatible models RI-2012yf/yfp, Legend Series</p>	



MSA—The Safety Company

Established in 1914, MSA Safety Incorporated is the global leader in the development, manufacture, and supply of safety products that protect people and facility infrastructures. Many MSA products integrate a combination of electronics, mechanical systems, and advanced materials to protect users against hazardous or life-threatening situations. The company's comprehensive product line is used by workers around the world in a broad range of markets, including the oil, gas, and petrochemical industry, the fire service, the construction industry, mining, and the military. MSA's core products include self-contained breathing apparatus, fixed gas and flame detection systems, portable gas detection instruments, industrial head protection products, firefighter helmets and protective apparel, and fall protection devices. With 2020 revenues of \$1.35 billion, MSA employs approximately 5,200 people worldwide. The company is headquartered north of Pittsburgh in Cranberry Township, PA, and has manufacturing operations in the United States, Europe, Asia, and Latin America. With more than 40 international locations, MSA realizes approximately half of its revenue from outside North America. For more information visit MSA's web site at www.MSAafety.com.

Our Mission

MSA's mission is to see to it that men and women may work in safety and that they, their families, and their communities may live in health throughout the world.

MSA: WE KNOW WHAT'S AT STAKE.

Note: This Bulletin contains only a general description of the products shown. While product uses and performance capabilities are generally described, the products shall not, under any circumstances, be used by untrained or unqualified individuals. The products shall not be used until the product instructions/user manual, which contains detailed information concerning the proper use and care of the products, including any warnings or cautions, have been thoroughly read and understood. Specifications are subject to change without prior notice. MSA is a registered trademark of MSA Technology, LLC in the US, Europe, and other Countries. For all other trademarks visit <https://us.msafety.com/Trademarks>.

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