LEAK MONITORS AND LEAK DETECTORS
YELLOW JACKET®

**AccuProbe™ UV Leak Detector**

With electrolyte sensor, UV technology and Smart Alarm™ indicator, this is the only tool you need for fast, easy and certain leak detection.
Use the solid electrolyte sensor or UV technology (or both at the same time) to detect the more current and
difficult HFC refrigerants such as R-134a, R-404A, R-407 and R-410A, in addition to all HCFC (R-22) refrigerants
including SNAP approved hydrocarbon and HFO refrigerants, all with minimal chance of false alarms.

**AccuProbe™ UV LEAK DETECTOR**

Our solid electrolyte sensor technology reduces heat and
gives the sensor longer life than traditional heated anode or
heated diode detectors.

3 UV lights fluoresce between 395 and 415 nanometers.
The Smart Alarm™ LED shows how big or small a leak is on
a scale of one to nine:

- 1 to 3 – less than 0.1 oz./yr.
- 4 to 6 – 0.1 to 0.5 oz./yr.
- 7 to 9 – more than 0.5 oz./yr.

In addition to the Smart Alarm indicator, the AccuProbe UV features low, normal and high sensitivity levels with visual
and audible signals.

- If there is no response from the flashing tip or beeping
  signal in the general area of a suspected leak, select
  high sensitivity
- High sensitivity will detect even low levels that could be
  missed with other detection systems
- Use low sensitivity as you move the tip over more defined
  areas of a system

The frequency of flashing from the electrolyte
sensor tip increases as you get closer to a leak and refrigerant
concentration increases. The audible alert, which can also be muted, increases in
frequency and duration as concentration increases.

**AccuProbe™ II LEAK DETECTOR**

Low, normal and high sensitivity levels with audible signals to quickly
and easily pinpoint leaks.

<table>
<thead>
<tr>
<th>UPC#</th>
<th>Description</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>69336</td>
<td>AccuProbe UV</td>
<td>Sensitivity: HFC (R-134a) 0.06 oz. (1.7 g)/yr.</td>
</tr>
<tr>
<td>69337</td>
<td>AccuProbe UV with global power supply (US, EU, UK, AU, NZ)</td>
<td>Calibration: Automatic</td>
</tr>
<tr>
<td>69338</td>
<td>AccuProbe UV - Japan</td>
<td>Power: 4 AA alkaline batteries, 4.5 hours continuous life</td>
</tr>
<tr>
<td>69375</td>
<td>A/C Adapter - global power supply (US, EU, UK, AU, NZ) CE and GS approved</td>
<td>Operating temperature range: 24° to 125°F (-4° to 52°C)</td>
</tr>
<tr>
<td>69383</td>
<td>Kit – sensor, filters and bottle</td>
<td>Storage temperature range: -4° to 122°F (-20° to 50°C)</td>
</tr>
<tr>
<td>69384</td>
<td>Replacement sensor and filter</td>
<td>Humidity: 0 to 95% RH non-condensing</td>
</tr>
<tr>
<td>69385</td>
<td>Sensor filters (5 pak)</td>
<td>Approvals: SAE J2791, CE marked, EN 14624</td>
</tr>
<tr>
<td>69386</td>
<td>Leak sensor bottle</td>
<td>Warranty: 24-month limited warranty</td>
</tr>
<tr>
<td>69387</td>
<td>Carrying case with inserts</td>
<td>Made in the USA</td>
</tr>
<tr>
<td>69388</td>
<td>Battery cover/screw (AccuProbe UV)</td>
<td></td>
</tr>
</tbody>
</table>

**Specifications**

- **Sensitivity:**
  - HFC (R-134a) 0.06 oz. (1.7 g)/yr.
  - HCFC (R-22) 0.03 oz. (0.9 g)/yr.
  - HFO (1234yf) 0.15 oz. (4.3 g)/yr.
- **Heated solid electrolyte sensor:**
  - Over 300 hours service life with minimal cleaning and no adjustments
- **Maintenance required:** None
- **Body length:** 10.5" (270 mm)
- **Probe length:** 17" (430 mm)
- **Weight:** 17 oz. (480 g)
- **Warm up time:** 20 seconds or less

**UPC# Description**

<table>
<thead>
<tr>
<th>UPC#</th>
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<tbody>
<tr>
<td>69354</td>
<td>AccuProbe II leak detector</td>
</tr>
<tr>
<td>69383</td>
<td>Kit – sensor, filters and bottle</td>
</tr>
<tr>
<td>69384</td>
<td>Replacement sensor and filter</td>
</tr>
<tr>
<td>69385</td>
<td>Sensor filters (5 pak)</td>
</tr>
<tr>
<td>69386</td>
<td>Leak sensor bottle</td>
</tr>
<tr>
<td>69387</td>
<td>Carrying case with inserts</td>
</tr>
<tr>
<td>69361</td>
<td>Zipper pouch</td>
</tr>
</tbody>
</table>
Tips for detecting system leaks with leak detector:

1. Inspect entire A/C system for signs of oil leakage, corrosion cracks or other damage. Follow the system in a continuous path so no potential leaks are missed.
2. Make sure there is enough refrigerant in the system (about 15% of system capacity or 50 psi min.) to generate pressure to detect leaks.
3. Check all service access port fittings. Check seals in caps.
4. Move detector probe at 1” per second within 1/4” of suspected leak area.
5. Refrigerant is heavier than air so position probe below test point.
6. Minimize air movement in area to make it easier to pinpoint the leak.
7. Verify an apparent leak by blowing air into suspected leak to clean the area and see if the leak remains.
8. When checking for evaporator leaks, check for gas in condensate drain tube.

**ELECTROLYTE SENSOR OR NEGATIVE CORONA?**

**Electrolyte Sensor Leak Detectors**

When the electrolyte sensing element is exposed to refrigerant, an electrochemical reaction changes the electrical resistance within the element, causing an alarm. The sensor is refrigerant specific with superior sensitivity to all HFCs and HCFCs, and minimal chance of false alarms. When exposed to large amounts of refrigerant, which could poison other systems, the electrolyte sensor clears quickly and does not need recalibration before reuse.

**Negative Corona Leak Detectors**

In the sensor of a corona detector, high voltage applied to a pointed electrode creates a corona. When refrigerant breaks the corona arc, the degree of breakage generates the level of the alarm. Sensitivity decreases with exposure to dirt, oils and water. False alarms can be triggered by dust, dirt specks, soap bubbles, humidity, smoke, small variations in the electrode emission, high levels of hydrocarbon vapors and other non-refrigerant variables.

**H₂ DETECTOR**

**Detects 5% H₂ in 95% Nitrogen Tracer Gas**

Many countries are now adopting laws that ban the use of refrigerants for system testing. The YELLOW JACKET H₂ was developed for the H₂ (95% nitrogen and 5% hydrogen) tracer gas mixture.

When used with the H₂/nitrogen tracer gas mixture, the YELLOW JACKET H₂ will detect leak rates less than 5 ppm.

- Long life, stable sensor
- Does not require rechargeable batteries
- Automatic calibration and reset to ambient
- Three adjustable sensitivity levels
- Low battery indicator
- CE Certified
- True mechanical pump
- Two-year warranty
- Made in USA

### Specifications

- **Sensitivity:** Less than 5 ppm
- **Sensor life:** Over 300 hours
- **Response Time:** Instantaneous
- **Probe length:** 17”  
  **Weight:** 1.5 lbs.
- **Warm up time:** 20 seconds or less
- **Power:** 4 AA alkaline batteries, 8 hours continuous life
- **Approvals:** EN35422 and EN14624

### UPC# Description

<table>
<thead>
<tr>
<th>UPC#</th>
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</tr>
</thead>
<tbody>
<tr>
<td>69341</td>
<td>H₂ leak detector</td>
</tr>
<tr>
<td>69342</td>
<td>Replacement sensor</td>
</tr>
<tr>
<td>69343</td>
<td>Carrying case with inserts (grey)</td>
</tr>
</tbody>
</table>

**MIXRO LED UV LEAK DETECTION KITS AND LAMPS For all A/C systems and lamps**

Individual reflectors surround each of five LEDs recessed for protection in the stainless steel head.

- Long life LEDs
- Constant ON switch
- Sealing locks out moisture
- AA Alkaline battery included (dispose of batteries via disposal practices in your area)
- Aluminum body

### UPC# Description

<table>
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<tr>
<th>UPC#</th>
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<tbody>
<tr>
<td>69782</td>
<td>395-415 nm wavelength UV LED flashlight</td>
</tr>
<tr>
<td>69788*</td>
<td>Micro UV LED and dye kit for auto</td>
</tr>
<tr>
<td>69789*</td>
<td>Micro UV LED and dye kit for AC/R</td>
</tr>
<tr>
<td>69793</td>
<td>Replacement pouch for LED (for older style with black casing)</td>
</tr>
<tr>
<td>69794</td>
<td>Lithium battery (2 pak) (for older style with black casing)</td>
</tr>
</tbody>
</table>

* Not for direct injection into R-410A systems due to high pressure. Bulbs not replaceable.
LARGE SYSTEM INJECTORS
Systems with up to 32 gallons of lubricant

Self-contained injection system for inducing up to 16 oz. of universal AC/R dye into the largest systems. Add to the lo-side. Easily works on all system pressures to 300 psi, .35 oz. per stroke. Hose included with SealRight end.

- Recommended for R-410A
- Made in the USA

<table>
<thead>
<tr>
<th>UPC#</th>
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</tr>
</thead>
<tbody>
<tr>
<td>69555</td>
<td>Large system injector</td>
</tr>
<tr>
<td>77950</td>
<td>Large system injector with coupler</td>
</tr>
</tbody>
</table>

CALIBRATED A/C SCREW INJECTION

This 2 oz. injector is easy to refill and easy to operate. Calibrations are clearly marked on the injector. Connect to A/C lo-side and rotate handle. AC/R and auto models. Maximum port pressure of 250 psi.

<table>
<thead>
<tr>
<th>UPC#</th>
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</tr>
</thead>
<tbody>
<tr>
<td>69729</td>
<td>Universal screw injector (no hose)</td>
</tr>
<tr>
<td>69730</td>
<td>1/4” Calibrated A/C screw injector (with hose)</td>
</tr>
<tr>
<td>69731</td>
<td>Auto R-134a calibrated A/C screw injector with service coupler</td>
</tr>
<tr>
<td>69732</td>
<td>Auto R-134a calibrated A/C screw injector</td>
</tr>
<tr>
<td></td>
<td>without service coupler</td>
</tr>
<tr>
<td>69723</td>
<td>1/4” replacement hose</td>
</tr>
<tr>
<td>69724</td>
<td>R-134a replacement hose</td>
</tr>
</tbody>
</table>

UNIVERSAL A/C DYE INJECTORS AND HOSE

Universal A/C dye injectors work in AC/R and auto A/C systems. Four 1/4 oz. applications of dye in each disposable tube make it economical, fast and clean. Hose features back flow check valve.

- Maximum system port pressure of 80 psi
- Not for direct injection into R-410A systems due to high pressure
- Made in the USA

<table>
<thead>
<tr>
<th>UPC#</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>69702</td>
<td>Hose plus 2 injectors for AC/R</td>
</tr>
<tr>
<td>69703</td>
<td>Auto R-134a hose, coupling and injectors</td>
</tr>
<tr>
<td>69705</td>
<td>Injector hose with SealRight</td>
</tr>
<tr>
<td>69706</td>
<td>Auto R-134a injector hose and service coupler</td>
</tr>
</tbody>
</table>

DYE AND OIL INJECTORS

Body and cap are rugged aluminum with an “O” ring seal. 1/4” Male fitting at one end with Schrader. A ball valve for control on other end with a short length of hose. Valve depressor in 1/4” Female end. 600 psi working pressure.

Saves time on many applications:

- Add oil to system
- Put oil in after changeout
- Add scanner fluorescent solution
- Add additives to system
- Refrigerant sampling
- Recommended for R-410A
- Made in the USA

<table>
<thead>
<tr>
<th>UPC#</th>
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</tr>
</thead>
<tbody>
<tr>
<td>69559</td>
<td>1/4 oz. Oil injector</td>
</tr>
<tr>
<td>69560</td>
<td>1/2 oz. Oil injector</td>
</tr>
<tr>
<td>69561</td>
<td>2 oz. Oil injector</td>
</tr>
<tr>
<td>69562</td>
<td>4 oz. Oil injector</td>
</tr>
<tr>
<td>69563</td>
<td>“O” ring 1/4 and 1/2 oz. injector (5 pak)</td>
</tr>
<tr>
<td>69564</td>
<td>“O” ring 2 and 4 oz. injector (5 pak)</td>
</tr>
<tr>
<td>69722</td>
<td>Replacement hose</td>
</tr>
</tbody>
</table>

UNIVERSAL A/C DISPOSABLE INJECTORS

Universal disposable 1 oz. applicator for fast economical dispensing. Universal dye for all common refrigerants and oils. Two 1/2 oz. applications for regular split systems or four 1/4 oz. applications for small appliances or auto A/C.

- Less costly and faster than many other methods
- One dye minimizes inventory
- No back-up refrigerant to move dye into system
- Maximum system port pressure of 80 psi
- Not for direct injection into R-410A systems due to high pressure
- Made in the USA

<table>
<thead>
<tr>
<th>UPC#</th>
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</tr>
</thead>
<tbody>
<tr>
<td>69700</td>
<td>1 oz. (30 ml) Injector (6 pak) (12 residential applications/case)</td>
</tr>
<tr>
<td>69721</td>
<td>1 oz. (30 ml) Injector (2 pak) (4 residential applications/package)</td>
</tr>
<tr>
<td>69727</td>
<td>1 oz. (30 ml) Injector</td>
</tr>
</tbody>
</table>

Easy to use: connect to system, push in plunger, then disconnect.

US Patent # 6,164,348
UNIVERSAL A/C DYE SOLUTIONS

Universal dye for A/C systems with mineral, alkyl benzene or polyol ester lubricants.

- Field proven and sold worldwide
- Passed thermal stability tests
- One dye for AC/R systems
- Raw material QC assures dye uniformity

Universal dye for A/C systems with mineral, alkyl benzene or polyol ester lubricants.

Different concentrations of fluorescent solutions are available to match the refrigerant volume in a system.

- Operating temperature is -40°F for all solutions and -100°F for alkylbenzene systems
- When working on split systems, use solution 3 even if system has 10 lbs. or less of gas

DYE APPLICATION AMOUNTS

Application
Small appliance
A/C or refrigerant systems
Larger systems

System size in lbs. of refrigerant
Up to 4.9 lbs. (2.22 kg)
Up to 25 lbs. (11.34 kg)
Above 25 lbs. (11.34 kg)

Universal dye amount
0.25 oz. (7.5 ml)
0.5 oz. (15 ml)
0.5 oz. (15 ml) per gallon of oil

Not recommended for systems with internal temperatures below -40°F. Compatible with mineral, alkylbenzene, ester and PAG oil systems.

FLUORESCENT SCANNER SOLUTIONS

Technology to match refrigerant and system volume

 Different concentrations of fluorescent solutions are available to match the refrigerant volume in a system.

- Operating temperature is -40°F for all solutions and -100°F for alkylbenzene systems
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Above 25 lbs. (11.34 kg)

Universal dye amount
0.25 oz. (7.5 ml)
0.5 oz. (15 ml)
0.5 oz. (15 ml) per gallon of oil

Not recommended for systems with internal temperatures below -40°F. Compatible with mineral, alkylbenzene, ester and PAG oil systems.
**FLUORESCENT SOLUTIONS**
For non-refrigerant applications

The oil and fluid dye solution is for finding leaks in oil-based applications. **Use 1 oz. per 2 gallons of oil**.
- Pin point leaks in milling machines and hydraulic systems such as cherry pickers
- Find seal and gasket leaks in engines, compressors and transmissions
- Locate leaks in gasoline or diesel fuel equipment, offset printing presses, injection-molding machines, locomotive engine oil coolers and oil-cooled chillers
**H₂O (water) solution** glows blue at leak sources in large closed-loop water systems. Use one pint per 1,000 gallons of water.
- Detect leaks in storage tanks and other high volume containers, as well as associated piping, valves condensers, sprinkler systems, pumps, etc.
- Detect water leakage in any enclosed circulatory system or static system that can be pressurized or agitated
- Made in the USA

**UPC#** | **Description**
--- | ---
69733 | 1 oz. (30 ml) Oil and fluid dye (6 pak)
69734 | 1 oz. (30 ml) Oil and fluid dye (24 pak)
69735 | 8 oz. (240 ml) Oil and fluid dye

**YELLOW JACKET solutions meet or exceed applicable ASHRAE and ANSI tests and SAE standard J2297 for R-134a UV leak detection.**

**CLEANERS**

**Scan-off UV Cleaner**
Water-based biodegradable spray cleans scanner solution from system.

**Natural Degreaser**
Heavy duty biodegradable degreaser removes scanner solution from system.

**Hand Cleaner**
Cleans solution from hands.

**UPC#** | **Description**
--- | ---
69698 | 19 oz. Natural degreaser #01020
69699 | 16 oz. Hand cleaner
69696 | 8 oz. Scan-off solution
69697 | 8 oz. Scan-off solution (12 pak)

**APPLICATIONS:**
- Internal gas lines/pipes
- Propane filling stations
- Gas heaters
- Combustion appliances
- Hydrocarbon refrigerant
- Heat exchangers
- Marine bilges
- Manholes
- Air quality
- Arson residue (accelerants)

**Specifications**
- Warm up time: 25 seconds
- Power battery: 4 AA alkaline batteries, 20 hours continuous life
- Probe length: 17” (43.17 cm)
- Sensor life: 500 hours
- Body length: 10.5” (26.67 cm)
- Weight: 16 oz. (0.45kg)
- Operating temperature range: 32° to 110°F (0° to 43°C)

**UPC#** | **Description**
--- | ---
69371 | Replacement sensor
69372 | Replacement sensor cover
69373 | Combustible gas detector with case
69387 | Carrying case – blow molded
69379 | Battery cover and screw (2003-2011)
69347 | Battery cover and screw (2011)

**COMBUSTIBLE GAS DETECTOR**
With ultra-sensitive, long life sensor

Detects all hydrocarbon and other combustible gases including propane, methane, butane, industrial solvents and more.
- Unit is preset at normal sensitivity, but you can switch to high or low. Slow beeping indicates that unit is warmed up. Frequency increases when a leak is detected until an alarm sounds when moving into high gas concentration. The Smart Alarm™ LED indicates leak size.
- Ultra-sensitive sensor detects less than 15 ppm methane and better than 12 ppm for propane. Performs equally well on a complete list of detectable gases including acetylene, butane and isobutane
- Automatic calibration and zeroing
- Sensor replaceable after full service life
- Smart Alarm LED shows how big or small a leak is on a scale of one to 9.
- 24-month limited warranty (12-month warranty on sensor)
- Made in USA

If no leak is detected in a suspected area, select high sensitivity. This will detect even low levels in the area. Move the tip over more defined areas, and you will be alerted when the tip encounters the concentration at the leak source.

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SENSOR FOR LEAK MONITORING SYSTEMS

Semi-conductor technology makes YELLOW JACKET monitoring systems an attractive alternative to electrochemical or infrared systems.

- Factory calibrated for R-404A (call factory for other refrigerants)
- Sensors mount to any flat vertical surface
- For point detection, mount sensor(s) near the most likely leak source
- For perimeter detection, sensors surround the potential leak area
- Operating temperature range of -20 to 122°F (-29 to 50°C)
- Refrigerant sensors for most common CFCs, HFCs and HCFCs, plus R-134a, R-404A, R-410A and R-407C
- Should not be used with refrigerants that have an Occupational Exposure Limit of less than 300ppm

Specifications

- Relays: Dry contact switch; 10 amp at 120/250V max
- Sensor: 4.3" x 2.2" x 0.9" (109 mm x 56 mm x 23 mm)
- Sensors can be hard wired up to 200’ from controller
- Power LED: Green
- Sensor cable: Use 4 conductor, unshielded cable, 22 AWG or larger* (0.25” O.D. maximum)
- Power: 120V/60 Hz or 230V/50-60 Hz
- Operation: Constant power-on and fault monitoring
- Reset: On two level unit, automatic on low level; manual on high level

*Check your local building code for additional requirements specific to your application.

RELAY EXPANDER BOX

Enables the four or six sensor controller to individualize response to each sensor, e.g. sensor one is set to activate a fan and auto dialer while other sensors activate different response systems. If sensor one detects a leak, only its corresponding systems are activated. The other sensors remain in monitoring mode and will respond individually if a leak is detected in their specific area.

Specifications

- Two voltage-free relays can activate ventilation or remote alarms, or report to control systems. The monitor can also be connected to dedicated 16-unit panel (indefinitely expandable by connecting control panels).
- 3.4" x 5.8" x 2.4" (86 mm x 147 mm x 61 mm)
- For use in living spaces, marine and mechanical rooms

INTEGRATED AREA MONITOR

Sensor and controller are combined into a single, compact unit that can be hard wired into any outlet or power supply to detect leaks in the area.

The unit emits a continuous siren and constant red LED illumination at about 1000 ppm. This early warning allows time to find the leak while refrigerant concentration is still low. With adjustable delay, the monitor waits up to 15 minutes to avoid false alarms before signaling. Siren can be switched off.

Specifications

- Two voltage-free relays can activate ventilation or remote alarms, or report to control systems. The monitor can also be connected to dedicated 16-unit panel (indefinitely expandable by connecting control panels).
- 3.4" x 5.8" x 2.4" (86 mm x 147 mm x 61 mm)
- For use in living spaces, marine and mechanical rooms