As long as there’s been air conditioning, there’s been Robinair, the global leader in automotive and HVAC/R air conditioning (A/C) refrigerant recovery, recycling and recharge tools, equipment and accessories. Vehicle manufacturers (OEMs), dealership service departments, auto repair shops, industrial and commercial contractors have turned to Robinair for A/C service products since 1956.
Protect Your Investment
Robinair technical support, local service centers and flexible ToolGuard™ extended service coverage you can count on.

At Bosch Automotive Service Solutions Inc., we recognize that your purchase of Robinair tools and equipment is an important investment in your business.

Since 1956, Robinair has been and continues to be a world leader and trusted name in automotive HVAC A/C service equipment. We know you rely on the dependability of our products and the way we take care of you and your equipment after purchase. With a technical support team that is eager to help and hundreds of service centers throughout North America, we are able to quickly respond to your service needs.

Warranty Registration
Warranty registration is the most important step in helping us provide exceptional customer service for you. Registration is available online at www.robinair.com/support or call 1-800-822-5561 and follow the prompt for Robinair technical support.

ToolGuard™ Extended Protection Plan
Robinair provides factory warranty coverage with the purchase of your new tool. However, we expect you will be using your tools well beyond your factory warranty. To continue protecting your investment and budget your maintenance costs, consider keeping your coverage with the ToolGuard™ Extended Protection Plan.

To learn more about available coverage, visit us at robinair.com, e-mail us at toolguard@bosch-automotive.com or call us at 1-800-233-7055.

Warranty Replacement or Repair:
Handheld Robinair and TIF products
RepairTrack offers you the ability to manage your warranty replacement or repair experience for the Robinair handheld products by providing you with an easy way to send your product in for replacement or repair and track it. From the moment it leaves your facility to the moment it returns, you will have the latest information. Generate a Repair Return Authorization by printing out a UPS tracking number directly from this site. Review and approve Repair Estimates online. Make Credit Card payments for your Repairs online. Up to date warranty and service information include any special programs that exist with your product. Find out the latest repair policies and procedures, and where to go for additional information. Don’t miss out on this valuable service.
To learn more, log on to RepairTrack at repairtrack.bosch-automotive.com.

Robinair Refrigerant Recovery, Recycling, and Recharging products
When service is necessary on your Robinair air conditioning equipment in the field, have confidence that Robinair has you covered. Our extensive service network allows us to be truly local everywhere.

Installation, Set-up and Training
› Provides technical expertise to ensure your product is installed correctly and set up for optimal performance by our factory-trained personnel
› Standard for select products that require more attention
› Customized training and setup programs are available to meet your specific needs

Service Network
› Nationwide coverage with 225+ service centers provides convenience for service & maintenance on our air conditioning equipment in the field
› Feel confident because our centers are authorized & factory-trained; providing quality, expert service
› Centers have exclusive access to genuine OEM service parts
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<tr>
<td>Fin Straightener, Valve Core Tools</td>
<td>27 – 28</td>
</tr>
</tbody>
</table>
Combining Simple Operation With Superior Accuracy:

These machines will test, recover, and recharge R-134a automotive A/C systems quickly and accurately.

<table>
<thead>
<tr>
<th>Features</th>
<th>34288NI</th>
<th>34788NI</th>
<th>34788NI-H</th>
<th>34988NI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fully-Automatic Function: Program to recover, vacuum, leak test and charge without operating panel valves.</td>
<td>–</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Automatic Dye Inject: Gives the user the ability to use the machine to inject UV dye into a vehicle's A/C system.</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>Yes</td>
</tr>
<tr>
<td>Automatic Oil Drain: A display reminds you to empty the graduated container to show the amount of oil to replace.</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Oil Inject: Automatically inject oil back into the vehicle's A/C systems.</td>
<td>–</td>
<td>Yes*</td>
<td>–</td>
<td>Yes**</td>
</tr>
<tr>
<td>Refrigerant &amp; Oil Database: A/C system capacities for North American market vehicles (Optional – not included with the machine)</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
</tr>
<tr>
<td>A/C System Flush: Flushes a vehicle's A/C system with refrigerant, eliminating any residual oil or other liquid. (Flushing adapters not included)</td>
<td>–</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Save &amp; print before and after service data: Allows the user to store before and after service information by vehicle and print this information to provide to a customer.</td>
<td>–</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Visual &amp; Audible Alarm: Notifies the user when service is complete, or if a problem has occurred.</td>
<td>–</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Vacuum Leak Test: Monitors level after evacuation, informs of possible leak.</td>
<td>–</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Automatic Air Purge: Eliminates system-damaging air without monitoring gauges or opening valves.</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Automatic Refrigerant Refill: Maintains a user-selectable amount of refrigerant in an internal vessel and signals when it's time to change supply tank, no monitoring required.</td>
<td>–</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Vacuum Feature: Defaults to 15 mins, programmable up to 99 mins. “Remaining time” is displayed.</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Display: Multilingual.</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Refrigerant Charging:</td>
<td>Yes</td>
<td>Yes***</td>
<td>Yes***</td>
<td>Yes***</td>
</tr>
<tr>
<td>Refrigerant Management System: Displays refrigerant use and monitors remaining filter life. Prompts appear when 1/3 of filter life remains.</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Electric Vehicle: Capable of servicing high voltage electric compressor A/C systems.</td>
<td>–</td>
<td>–</td>
<td>Yes</td>
<td>–</td>
</tr>
<tr>
<td>Printer:</td>
<td>–</td>
<td>Optional</td>
<td>Yes</td>
<td>–</td>
</tr>
</tbody>
</table>

* One oil bottle. ** Two oil bottles and one UV dye bottle. *** Charge mode from high or low side, or use both sides.
**34788NI-H**

Premier R-134a Refrigerant Recovery, Recycling, and Recharging Machine for Hybrid and Non-Hybrid Vehicles

All of the same great features and functions included on the 34788NI, plus the added capability of servicing Hybrid vehicles that use high voltage electric compressors. Recover, recycle, evacuate, leak-test and recharge R-134a vehicle A/C systems. Features a larger graphical display, leak testing, automatic refrigerant refill and automated oil drain. An optional refrigerant charge and oil capacities database is available for North American market vehicles.

**34988NI**

Premium Refrigerant Recover, Recycle, Recharge Machine

Premium A/C Machine combines ease of use and superior accuracy. It recovers, recycles, evacuates, leak tests and recharges R-134a vehicle systems quickly and accurately. The fully automatic function will recover, vacuum, leak test and charge on its own without the need to stand and monitor the machine. The product is fully SAE J2788 compliant and exceeds the requirements for charge accuracy and recovery efficiency.

(34988NI-230, 220V)

---

<table>
<thead>
<tr>
<th>Replacement / Accessories / Maintenance Kits</th>
<th>34288NI</th>
<th>34788NI</th>
<th>34788NI-H</th>
<th>34988NI</th>
</tr>
</thead>
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<tr>
<td><strong>Replacement Parts</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>34724 – Filter (See page 8)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>18190A – Low Side (Blue) Coupler (See page 16)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>18191A – High Side (Red) Coupler (See page 16)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Accessories</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>34412-C – Refrigerant Capacities Database (See page 7)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>18480 and 18490 – Oil Injectors (See page 6)</td>
<td>Yes</td>
<td>–</td>
<td>Yes</td>
<td>–</td>
</tr>
<tr>
<td>17499 – Dust Cover, fits 34288NI, 34788NI, 34788NI-H and 34988NI models. (See page 7)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Maintenance Kits</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13172 – Maintenance Kit (See page 6)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
A/C Recovery & Recycling
R-1234yf automotive A/C systems

R-1234yf recovery leaders

Robinair recovery machines are the North American leaders in R-1234yf service.
The AC1234-6 and new AC1234-4 offer fully automatic operation, a powerful 1.5 CFM pump and use a liquid refrigerant flush function to recover more refrigerant faster. Both machines exceed J2843 requirements for R-1234yf recovery, recycle and recharge equipment. Standard features include an integrated refrigerant identifier, automatic internal tank refill, automatic oil drain and a color display.

FOR COMPLETE 1234YF SERVICE, PAIR WITH A ROBINAIR LEAK DETECTOR, PAGE 10

---

**Features**

<table>
<thead>
<tr>
<th>Feature</th>
<th>AC1234-4</th>
<th>AC1234-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fully automatic operation</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Integrated refrigerant identifier</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Charge accuracy within +/- .5 oz</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Automatic internal tank refill</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Liquid refrigerant flush function</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>98.5% recovery efficiency</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Programmable vacuum operation</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Automatic oil drain</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Automatic air purge</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>System leak test to identify gross leaks in a system</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Color graphical display</td>
<td>4.3&quot; 480x272 QVGA color LCD</td>
<td>5.7&quot; 960x240 QVGA color LCD</td>
</tr>
<tr>
<td>On-board printer</td>
<td>Optional</td>
<td>(Yes) for future use</td>
</tr>
<tr>
<td>Ethernet Network Port</td>
<td>–</td>
<td>(Yes) for future use</td>
</tr>
<tr>
<td>USB 2.0 Port</td>
<td>–</td>
<td>(Yes) for future use</td>
</tr>
<tr>
<td>Audio jack</td>
<td>–</td>
<td>Yes</td>
</tr>
<tr>
<td>Standard SD Card slot</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Meets / exceeds SAE J2843 requirement</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>AC1234-4</th>
<th>AC1234-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service time, approx.</td>
<td>60 minutes*</td>
<td>60 minutes*</td>
</tr>
<tr>
<td>Operating voltage</td>
<td>103 - 127V, 60 Hz AC</td>
<td>103 - 127V, 60 Hz AC</td>
</tr>
<tr>
<td>Pressure gauges</td>
<td>100 mm, EN837-1</td>
<td>100 mm, EN837-1</td>
</tr>
<tr>
<td>Keyboard</td>
<td>Alpha-numeric with service function keys</td>
<td>Alpha-numeric with service function keys</td>
</tr>
<tr>
<td>Vacuum pump</td>
<td>1.5 CFM dual-stage</td>
<td>1.5 CFM dual-stage</td>
</tr>
<tr>
<td>Compressor</td>
<td>1/3 hp hermetic</td>
<td>1/3 hp hermetic</td>
</tr>
<tr>
<td>Port access</td>
<td>–</td>
<td>USB, SD, RJ45 I/O</td>
</tr>
<tr>
<td>Hoses / couplers</td>
<td>9-foot SAE J2886</td>
<td>9-foot SAE J2886</td>
</tr>
<tr>
<td>J2843 compliant</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*60 minute service time assumes ambient air temp (AAT) of 75 degrees F, vehicle matching AAT, 15-minute vacuum time, 1.2 lbs (550g) R-1234yf refrigerant fill and a 5-minute leak detection cycle.
A/C Recovery & Recycling
Heavy-Duty A/C systems

The Robinair 34888HD heavy-duty machine recovers, recycles, evacuates, leak-tests and recharges R-134a with 98.5% efficiency in both small and large mobile air conditioning systems.

- Large capacity, removable 50-lb. tank and liquid pump for larger A/C systems, typically found in busses
- Nitrogen port to dry and leak test A/C systems
- Fully automatic recovery, system evacuation, leak testing, refrigerant charge and oil drain/inject
- Optional printer for capturing and retaining vehicle service data

34888HD

The Robinair 34888HD heavy-duty machine recovers, recycles, evacuates, leak-tests and recharges R-134a with 98.5% efficiency in both small and large mobile air conditioning systems.

- Large capacity, removable 50-lb. tank and liquid pump for larger A/C systems, typically found in busses
- Nitrogen port to dry and leak test A/C systems
- Fully automatic recovery, system evacuation, leak testing, refrigerant charge and oil drain/inject
- Optional printer for capturing and retaining vehicle service data

Features

- **Fully-Automatic Function:** Program to recover, vacuum, leak test and charge without operating panel valves
- **Automatic Oil Drain:** A display reminds you to empty the graduated container to show the amount of oil to replace
- **Oil Inject:** Automatically inject oil back into the vehicle’s A/C system
- **Visual & Audible Alarm:** Notifies the user when service is complete, or if a problem has occurred
- **Nitrogen Port:** Inject nitrogen into the vehicle’s A/C system to dry or leak check the system
- **Automatic Air Purge:** Eliminates system-damaging air without monitoring gauges or opening valves
- **Vacuum Feature:** Defaults to 15 mins, programmable up to 99 mins. “Remaining time” is displayed
- **Removal External Tank:** The ability to switch tanks when performing multiple recoveries on large mobile A/C systems
- **Display:** Multilingual
- **Refrigerant Management System:** Displays refrigerant use and monitors remaining filter life. Prompts appear when 1/3 of filter life remains
- **Refrigerant Charging:** Select a charge mode from high or low side, or use both sides
- **Optional:** Printer

Replacement Parts

34724 — Spin on filter  
34750 — 50 lb. tank for R-134a

Specifications

- **Operating Temp Range:** 32° - 120°F (0°-50°C)
- **Recovery Performance:** >95% at 70 to 75° F (21 to 24°C) <30 minutes
- **Voltage:** 125 VAC 60 Hz
- **Charge Performance:** +/- 0.5 oz at 70° to 75° F (+/- 15g at 21° to 24° C)
- **Display:** 5 cm x 9 cm graphical display
- **Filter-Drier Capacity:** 300 lb (136kg), spin-on type
- **Hoses:** 18 ft (5.5 m)
- **Weight:** Approximately 295 lbs. (133 kg)
- **Compressor:** 3/8 hp, pressure protected, oiled, hermetically sealed
- **Dimensions (HxWxD):** 49 in x 28 x 39 (124.5 cm x 71 cm x 99 cm)
- **Vacuum Pump:** 5.0 cfm Dual Stage, 29.9 lnHg
- **Languages:** English, French, Spanish
- **Cylinder:** External 50 lb. DOT
- **Certifications:** SAE J2788
- **Efficiency:** Industry-leading 98.5%

The 17800C recovers, recycles, evacuates and recharges, all in one fast and continuous operation through one hook-up. It’s ideal for mass transit vehicles, buses, refrigerated trailers or containers and other applications that use refrigerants not typically found in mobile applications.

- Automatically controls machine functions, leading the user through operations and also notifying when it’s time to change the filter drier, and vacuum pump oil
- Automatically adjusts from liquid to vapor for fast and efficient recovery.
- Electronic scale makes it simple to recharge to factory specifications; also weighs recovered refrigerant and provides tank overfill protection.
- 5 cfm vacuum pump is large enough to thoroughly evacuate almost any system; making it ready for recharging.
- Manual air purge function to remove any non-condensable contaminants.
- Vacuum leak test function allows user to monitor the system for vacuum decay to determine if a leak exists in the A/C system.
- Heavy-duty filter can handle up to 300 lbs. of refrigerant removed from the system being serviced.
- Easy to view 4.3” color graphical display.
- Maintenance counters to monitor cumulative amounts of refrigerant recovered and charged, as well as other machine operation variables.
- Optional printer can be added to expand capabilities and provide printed record of service performed.

Replacement Parts

19776 — Quick change filter  
17572 — 50 lb. tank with float switch

Specifications

- **Voltage:** 115VAC, 60Hz (17800C), 230VAC, 50Hz (17801C)
- **Operating Temp Range:** 50 to 105° F (11 to 41° C)
- **Recovery Performance:** >95% at 70 to 75° F (21 to 24°C) <30 minutes
- **Voltage:** 125 VAC 60 Hz
- **Charge Performance:** +/- 0.5 oz at 70° to 75° F (+/- 15g at 21° to 24° C)
- **Display:** 5 cm x 9 cm graphical display
- **Filter-Drier Capacity:** 300 lb (136kg), spin-on type
- **Hoses:** 18 ft (5.5 m)
- **Weight:** Approximately 295 lbs. (133 kg)
- **Compressor:** 3/8 hp, pressure protected, oiled, hermetically sealed
- **Dimensions (HxWxD):** 47” H x 26” W x 30” D
- **Certification:** UL 1963, UL STANDARD FOR SAFETY REFRIGERANT RECOVERY/RECYCLING EQUIPMENT
- **Efficiency:** Industry-leading 98.5%

<table>
<thead>
<tr>
<th>Replacement Parts</th>
<th>34724 — Spin on filter</th>
<th>34750 — 50 lb. tank for R-134a</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specifications</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Temp Range</td>
<td>32° - 120°F (0°-50°C)</td>
<td></td>
</tr>
<tr>
<td>Recovery Performance</td>
<td>&gt;95% at 70 to 75° F (21 to 24°C) &lt;30 minutes</td>
<td></td>
</tr>
<tr>
<td>Voltage</td>
<td>125 VAC 60 Hz</td>
<td></td>
</tr>
<tr>
<td>Charge Performance</td>
<td>+/- 0.5 oz at 70° to 75° F (+/- 15g at 21° to 24° C)</td>
<td></td>
</tr>
<tr>
<td>Display</td>
<td>5 cm x 9 cm graphical display</td>
<td></td>
</tr>
<tr>
<td>Filter-Drier Capacity</td>
<td>300 lb (136kg), spin-on type</td>
<td></td>
</tr>
<tr>
<td>Hoses</td>
<td>18 ft (5.5 m)</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>Approximately 295 lbs. (133 kg)</td>
<td></td>
</tr>
<tr>
<td>Compressor</td>
<td>3/8 hp, pressure protected, oiled, hermetically sealed</td>
<td></td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>49 in x 28 x 39 (124.5 cm x 71 cm x 99 cm)</td>
<td></td>
</tr>
<tr>
<td>Vacuum Pump</td>
<td>5.0 cfm Dual Stage, 29.9 lnHg</td>
<td></td>
</tr>
<tr>
<td>Languages</td>
<td>English, French, Spanish</td>
<td></td>
</tr>
<tr>
<td>Cylinder</td>
<td>External 50 lb. DOT</td>
<td></td>
</tr>
<tr>
<td>Certifications</td>
<td>SAE J2788</td>
<td></td>
</tr>
<tr>
<td>Efficiency</td>
<td>Industry-leading 98.5%</td>
<td></td>
</tr>
</tbody>
</table>
A/C Recovery & Recycling
A/C flushing and Accessories

17580
A/C flushing unit
Make flushing part of your regular A/C service
You know that not all A/C jobs are simple recharges — there are times when you need to flush a vehicle’s air conditioning system to ensure that it operates properly. These circumstances fall into three categories:

Routine Maintenance — As an air conditioning system ages, oil, sludge, and particulates build up, plugging screens, expansion valves, and capillary tubes. Periodically, you should flush the system components to remove these contaminants.

Repairs — To be sure the system will operate properly, you should flush it whenever you repair or replace components. Failed components may contain metal shavings, sludge, and other debris that damage the system or affect the operation.

R-134a Retrofits — In some cases, conversion procedures call for complete removal of existing oil in an A/C system before changing fittings and recharging with R-134a. Flushing is the most thorough means of removing the oil, and it will also pick up any refrigerant residue in the system. Flushing, combined with pulling a deep vacuum, is your assurance the system is ready for the new refrigerant.

A/C Component Flusher
The 17580 makes flushing of lines, evaporators, and condensers fast and easy.

Features
Closed Loop Circulates solvent continuously through components
Includes two adapters. Additional adapters may be needed, sold separately.

Pulsing Action Loosens dirt, corrosion and other debris. Switching hoses allows a back flush option.

Air Agitation Needle Valve Bubbles air into liquid stream to enhance cleaning action.

Hose Adapters Contains adapters to mate with 1/4" flare and 3/8" quick disconnect fitting kits.

Sight Glass To observe flow rates and cleaning process.

One gallon of solvent is needed for the flush procedure. The unit purges solvent from the component, collecting the used material in the collection tank. An activated charcoal filter limits emissions and odors during flushing and purging.

Adapter Kit
17607 — Universal A/C flushing adapter kit.
17581 — Adapter.

Specifications
| Dimensions | 52” H x 33” W x 20” D |
| Weight     | 110 lbs. (50 kg) |
| Supply Pressure | 80–150 psi |

Maintenance Kits
Keep recovery and recycling units operating at peak efficiency with a convenient maintenance kit. Contains one Quick Change filter-drier for use on both R-12 and R-134a stations, and one 16-ounce bottle of our Premium High Vacuum Pump Oil.


See your instruction manual if you have questions about which filter-drier to use.

Syringe-Type Injectors
Use these syringe-type injectors to add oil to a fully pressurized A/C system. Fill the barrel with the amount of oil needed, connect the injector, and press the plunger.

16256 — R-134a oil injector, 1/2” Acme quick coupler.
18480 — R-134a oil injector, PAG labeled
18490 — R-134a oil injector, POE labeled
18460 — R-1234yf oil injector, Generic
18465 — R-1234yf oil injector, PAG labeled
18470 — R-1234yf oil injector, POE labeled

Not recommended for UV dye injection.
## Vehicle Database Screens

### R-134a Vehicle A/C Refrigerant Database 2019
- Confirm A/C system charge capacities directly from your Robinair A/C RRR machine for R-134a systems.
- Includes charge amounts and component oil capacities for vehicle model years 1997-2019 using R-134a refrigerant.
- Database helps ensure the vehicle system is charged correctly with the correct amount of oil, per factory and OEM specification.

#### 34411-J
- Compatible with legacy Robinair R-134a machines 34788, 34788-H, 34988.

#### 34412-D
- Compatible with new Robinair R-134a machines 34288NI, 34788NI, 34988NI.

### R-1234yf Vehicle A/C Refrigerant Database 2019
- Confirm A/C system charge capacities directly from your Robinair A/C RRR machine for R-1234yf systems.
- Includes charge amounts and component oil capacities for vehicle model years 2013-2019 using R-1234yf refrigerant.
- Database helps ensure the vehicle system is charged correctly with the correct amount of oil, per factory and OEM specification.

#### 34413-B
- Compatible with new Robinair AC1234-4 R-1234yf recovery machine.

## Vinyl Dust Covers

Protect your investment with a heavy-duty vinyl cover. Features corded seams for durability; medium gray color with CoolTech logo.

#### 17490
- Fits all 34888HD, 17800C, 75700, 17800B, 34900, 34800-2K, series.

#### 17492

#### 17499
- Fits 34288NI, 34788NI, 34788NI-H & 34988NI machines.

## Dust Cover for A/C RRR Machines

#### 17499
- Fits 34288NI, 34788NI, 34788NI-H, 34988NI, AC1234-4 and AC1234-6, models.
**A/C Recovery & Recycling**

**Recycling Filter-Driers**
Specially blended for maximum acid and moisture removal.

- **19776** – Quick change filter for 17800B, 17800C.
- **34430** – Quick change filter for older 17700A, 34450, 34700 (1997), AC375, AC375A, AC375C, 34134Z.

**Refrigerant Tanks**

- **17121** – 30 lb. tank, 1/4” fittings (25150, 25175, 25200B, 34234, 34300-2K, 34800 series).
- **17506** – 50 lb. tank, 1/4” fittings (17800A, 17800-2K, 17700A, 25160, 25175, 25200B series).
- **17605** – 30 lb. tank with float switch (17650A series).
- **17572** – 50 lb. tank with float switch. (17800C series).
- **34579** – 30 lb. tank (34650 series).
- **34750** – 50 lb. tank for R-134a (34700, 34888HD series).

**Orifice Tube Remover**
Use this handy tool to remove the orifice tube before flushing. Speeds service by removing the build-up of particulates on the orifice screen and restrictions that slow flushing. The basic tool works on GM and Ford vehicles and comes with: an extender body for 1985 and newer Ford models; an adapter for 1989–91 GM “J”, “L”, and “N” cars; and an adapter for 1991 and newer GM “C” and “K” trucks with #3096068 orifices.

**Flush Gun Kit**
An economical means of flushing contaminants and scale from A/C system components, the flush gun uses dry shop air to pressurize the solvent. The process thoroughly cleans the part, removing oil, any refrigerant contaminants, and residue. The attached nozzle directs the flow of solvent without spray-back.

**Power Flush Solvent**
Gives you the cleaning power to flush particulates and system lubricant from A/C and refrigeration lines, evaporators, and condensers. An ideal substitute for CFC-113, it has excellent cleaning properties and good evaporation rate. Compatible with all CFC, HCFC, and HFC refrigerants. Meets ANSI/ASHRAE 97-1933.

- **17565** – Gallon, six per carton.
- **17609** – Quart, six per carton.
The Robinair R-ID Plus refrigerant analyzer is a tool to meet the service needs of vehicles equipped with either a R134A or the newer R-1234yf A/C system. It quickly tells the user whether or not the refrigerant in the vehicle's A/C system is good or bad. It is certified to the SAE J2912 standard and is capable of connecting directly to any SAE J2843 or J3030 AC service machine that has an external USB port and is not equipped with a refrigerant analyzer. With a large, easy to read color display results are quickly and accurately displayed to user allowing them to make the right service decisions. The Robinair R-ID Plus comes with an internal printer giving the user the ability to print final test results.

**Product Features**
- Quickly and accurately determine refrigerant purity
- Displays amount of R-1234yf, R-134a, R-12, R-22 and Hydrocarbons in percentage
- Displays % air in pure R-1234yf & R-134a
- Capable of testing R-12 with optional R-12 hose
- Improved oil resistance with the user replaceable oil restrictor
- Large Color Display
- Battery powered with internal lithium battery
- Ergonomic design with protective boot

R-ID and R-ID Plus, Refrigerant Analyzer

**Specifications**

<table>
<thead>
<tr>
<th>Refrigerants Measured</th>
<th>R1234yf, R134a, and R12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contaminants Measure</td>
<td>R22, Hydrocarbons, Unknown</td>
</tr>
<tr>
<td>Accuracy</td>
<td>Exceeds SAE J2912 requirements</td>
</tr>
<tr>
<td>Refrigerant %’s Displayed</td>
<td>R1234yf, R134a, R22, R12, Hydrocarbons, Air and Unknown</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0 C to 49 C</td>
</tr>
<tr>
<td>Power</td>
<td>12VDC @ 1.5 amps</td>
</tr>
<tr>
<td>Battery</td>
<td>Lithium battery</td>
</tr>
<tr>
<td>Display</td>
<td>5.0 inch color LCD display with soft keys</td>
</tr>
<tr>
<td>Communication Protocols</td>
<td>USB 2.0, (both 16990 and 16995) Bluetooth 2.0, (16995 only)</td>
</tr>
<tr>
<td>Languages</td>
<td>ENG, FRE, GER, ITA, POR, SPA, CHI, JAP, KOR, RUS</td>
</tr>
<tr>
<td>Certifications</td>
<td>CE, UL and SAE</td>
</tr>
<tr>
<td>Warranty</td>
<td>Two Year</td>
</tr>
</tbody>
</table>

16009 – DiscovR™ Refrigerant Identifier

**How pure is your refrigerant?**

Most technicians never question the purity of virgin refrigerant, and most assume the refrigerant in a vehicle is “pure enough” unless the A/C system has a mysterious cooling problem. If a technician has no way of checking the refrigerant before they pull it out of a customer’s vehicle into their recovery equipment it may contaminate their service equipment as well as other vehicles that are serviced with the contaminated equipment.

**The first line of defense**

The best defense against unknown refrigerant and the risks associated with unknown refrigerant is a refrigerant identifier. With the Robinair 16009 DiscovR™ 134a refrigerant identifier you can:

- **Protect your A/C service equipment** – Know whether or not you have acceptable R-134a refrigerant before servicing the vehicle.
- **Guard against costly recovery equipment repairs** – Contaminated refrigerant can wreak havoc on any R-134a recovery, recycle and recharge machine. Shield your RRR machine from contaminated refrigerant by using the DiscovR™ refrigerant identifier before connecting to the vehicle.
- **Uncover hard to find air contamination** – DiscovR™ refrigerant identifier notifies you when the system contains excessive air.

- **Fast and Accurate** – “Pass” and “Fail” lights clearly show if refrigerant is pure enough to be recovered.

**Replacement Parts**

16109 – Replacement hose and filter (3 pack).

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Refrigerant R-134a</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Power</td>
<td>12 VDC</td>
</tr>
<tr>
<td>Accuracy</td>
<td>Pass/Fail - 95% pure R-134a</td>
</tr>
<tr>
<td>Air Detection</td>
<td>Yes</td>
</tr>
<tr>
<td>Approvals</td>
<td>SAE J1771 - UL/C</td>
</tr>
</tbody>
</table>
# A/C Recovery & Recycling

## Refrigerant Leak Detectors

- **LD3 Features**
  - Long life, stable sensor up to 10 years
  - Automatic calibration and reset to ambient
  - 3 adjustable sensitivity levels
  - Low battery indicator
  - True mechanical pump
  - Uses 4 AA alkaline batteries included
  - Comfortable Santoprene handle grip

- **LD3 Specifications**
  | Sensitivity       | 0.05 oz/yr R-134a, 0.0123 oz/yr R1234yf | 0.05 oz/yr R-134a, 0.0123 oz/yr R1234yf | 0.05 oz/yr R-134a, 0.0123 oz/yr R1234yf |
  | UV Mode           | – | – | 3 UV LEDs |
  | UV Wave-length    | – | – | 395-415 nanometers |
  | Sensor Life       | > 10 years | > 10 years | > 10 years |
  | Response Time     | Instantaneous | Instantaneous | Instantaneous |
  | Power Supply      | 4 AA alkaline batteries included | 4 AA alkaline batteries included | 4 AA alkaline batteries included |
  | Battery Life      | 4 hours continuous | 4 hours continuous | 4 hours continuous |
  | Warm up time      | < 20 seconds | < 20 seconds | < 20 seconds |
  | Alarm Near Sensor | – | – | Visual probe LED |
  | LCD Display       | – | 128 x 160 full color graphic display | 128 x 160 full color graphic display |
  | Probe length      | 17 inches | 17 inches | 17 inches |
  | Weight, lbs       | 1.5 lbs | 1.5 lbs | 1.5 lbs |
  | Warranty          | 2 years (includes sensor) | 2 years (includes sensor) | 2 years (includes sensor) |

- **LD5 Features**
  - Unique color graphic LCD display
  - Long life, stable sensor up to 10 years
  - Automatic calibration and reset to ambient
  - User friendly message and error screens
  - Hi intensity LED inspection light
  - 3 adjustable sensitivity levels
  - Low battery indicator
  - True mechanical pump
  - Audio mute function
  - Uses 4 AA alkaline batteries included
  - Comfortable Santoprene handle grip

- **LD5 Specifications**
  | Sensitivity       | 0.05 oz/yr R-134a, 0.0123 oz/yr R1234yf | 0.05 oz/yr R-134a, 0.0123 oz/yr R1234yf | 0.05 oz/yr R-134a, 0.0123 oz/yr R1234yf |
  | UV Mode           | – | – | 3 UV LEDs |
  | UV Wave-length    | – | – | 395-415 nanometers |
  | Sensor Life       | > 10 years | > 10 years | > 10 years |
  | Response Time     | Instantaneous | Instantaneous | Instantaneous |
  | Power Supply      | 4 AA alkaline batteries included | 4 AA alkaline batteries included | 4 AA alkaline batteries included |
  | Battery Life      | 4 hours continuous | 4 hours continuous | 4 hours continuous |
  | Warm up time      | < 20 seconds | < 20 seconds | < 20 seconds |
  | Alarm Near Sensor | – | – | Visual probe LED |
  | LCD Display       | – | 128 x 160 full color graphic display | 128 x 160 full color graphic display |
  | Probe length      | 17 inches | 17 inches | 17 inches |
  | Weight, lbs       | 1.5 lbs | 1.5 lbs | 1.5 lbs |
  | Warranty          | 2 years (includes sensor) | 2 years (includes sensor) | 2 years (includes sensor) |

- **LD7 Features**
  - Patented 3 LED UV lights with 395-415 nm; wavelength is optimum for A/C dye fluorescence
  - Unique color graphic LCD display
  - Long life, stable sensor up to 10 years
  - Sweep mode function to pinpoint leak source
  - Automatic calibration and reset to ambient
  - User friendly message and error screens
  - Hi intensity LED inspection light
  - 3 adjustable sensitivity levels
  - Low battery indicator
  - True mechanical pump
  - Audio mute function
  - Uses 4 AA alkaline batteries included
  - Comfortable Santoprene handle grip

- **LD7 Specifications**
  | Sensitivity       | 0.05 oz/yr R-134a, 0.0123 oz/yr R1234yf | 0.05 oz/yr R-134a, 0.0123 oz/yr R1234yf | 0.05 oz/yr R-134a, 0.0123 oz/yr R1234yf |
  | UV Mode           | – | – | 3 UV LEDs |
  | UV Wave-length    | – | – | 395-415 nanometers |
  | Sensor Life       | > 10 years | > 10 years | > 10 years |
  | Response Time     | Instantaneous | Instantaneous | Instantaneous |
  | Power Supply      | 4 AA alkaline batteries included | 4 AA alkaline batteries included | 4 AA alkaline batteries included |
  | Battery Life      | 4 hours continuous | 4 hours continuous | 4 hours continuous |
  | Warm up time      | < 20 seconds | < 20 seconds | < 20 seconds |
  | Alarm Near Sensor | – | – | Visual probe LED |
  | LCD Display       | – | 128 x 160 full color graphic display | 128 x 160 full color graphic display |
  | Probe length      | 17 inches | 17 inches | 17 inches |
  | Weight, lbs       | 1.5 lbs | 1.5 lbs | 1.5 lbs |
  | Warranty          | 2 years (includes sensor) | 2 years (includes sensor) | 2 years (includes sensor) |
TIF8800X
Combustible Gas Detector

The TIF8800X is a low maintenance, battery operated, combustible gas detector that provides a ticking signal that increases in frequency as the source of combustible gas or vapor is located. The TIF8800X is small enough to be operated with just one hand, yet loaded with the kind of advanced features service professionals demand. This tool allows you to pinpoint combustible gas leaks as small as 1 ppm quickly, while checking a relatively large area in a short amount of time with absolutely no calibration required.

Applications

The TIF8800X may be used in almost any situation where a combustible gas, vapor, or residue needs to be found. An ideal instrument for pinpointing combustible gas leaks in commercial, residential, and industrial applications.

› Audible “ticking” signal
› Leak strength indicating LEDs
› Adjustable sensitivity
› Cordless operation
› Fast warm-up
› Battery status indicator
› 15 inch flexible probe for hard-to-reach areas
› One-year warranty

Kit includes: TIF8800X, battery, battery charger and soft case.

International models
TIF8800X-E – 220V

Replacement Parts
TIF8801 – Sensor
TIF8802 – A/C adapter
TIF8802E – A/C adapter 220V
TIF8808 – Battery cover
TIF8809 – Ni Mh battery pack
TIF8818 – Rubber boot

Specifications

<table>
<thead>
<tr>
<th>Power Source</th>
<th>4.8V NiMH rechargeable battery pack lifetime up to 500 charge cycles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation</td>
<td>Continuous</td>
</tr>
<tr>
<td>Time</td>
<td>Approximately 4 hours</td>
</tr>
<tr>
<td>Warm-up</td>
<td>30 seconds</td>
</tr>
<tr>
<td>Duty Cycle</td>
<td>Continuous; no limitation</td>
</tr>
<tr>
<td>Response Time</td>
<td>Instantaneous</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>Variable; as low as 1 ppm (gasoline)</td>
</tr>
<tr>
<td>Operating Environment</td>
<td>32°F to 104°F (0°C to 40°C)</td>
</tr>
<tr>
<td>Weight</td>
<td>16 ounces (454 grams)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>8 in. x 3 in. x 1.8 in. (20.3 x 7.6 x 4.6 cm)</td>
</tr>
<tr>
<td>Certifications</td>
<td>UL913 7th Edition (use in Class I, II, or III, Division 1 hazardous (classified) locations)</td>
</tr>
</tbody>
</table>

TIF8900
Combustible Gas Detector

The TIF8900 is a super-sensitive, cordless, combustible gas detector that detects a broad range of natural gases including propane, methanol, butane, and gasoline.

› Solid-state sensor technology. Long life, and precision.
› Adjustable sensitivity levels; as low as 5ppm.
› Audible “Geiger counter” signal.
› Rechargeable battery and charger included.

International models
TIF8900-E – 220V.

Replacement Parts
TIF8801 – Sensing tip.
TIF8803A – 115V battery charger.
TIF8805 – Cigarette lighter adapter.
TIF8806A – Rechargeable Ni-Cad batteries.
TIF8806B – 220V battery charger.

Specifications

<table>
<thead>
<tr>
<th>Power Source</th>
<th>Two 2.4V Ni-Cad batteries (included)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Life</td>
<td>Approx. 4 hours per charge</td>
</tr>
<tr>
<td>Dimensions</td>
<td>8-1/2” L x 2-1/2” W x 2” D (21.59 cm x 6.35 cm x 5.08 cm)</td>
</tr>
<tr>
<td>Operating Range</td>
<td>32°F to 105°F</td>
</tr>
<tr>
<td>Probe Length</td>
<td>16 inches, weighs 12.3 oz.</td>
</tr>
</tbody>
</table>
16455
TruTrack Ultrasonic Leak Detector
Use TruTrack to identify:
- Refrigerant leaks
- Pressurized gas leaks
- Vacuum leaks
- Dry nitrogen gas leaks
- Steam leaks
- Failing solenoids, valves, bearings

**Easy to Use** — Just put on the headset, adjust the sensitivity level, and place the sensor near the suspected problem area; you can use the sensor alone or with one of the probes.

**Positive Identification** — You hear the sound of the leak in the headset with no beeps or squeals; the sound is loudest when you are near the leak.

**Accurate** — Wind, stray gases, or other contaminants will not trigger a false alarm; the unit suppresses most background noises.

**Dependable** — There are no clogged tips to clean, or sensors to replace, for accurate readings.

**Versatile** — Ideal for a wide range of service and preventive maintenance applications. Taking regular readings of bearing or solenoid function, for instance, can show increased noise, which may be a sign the component is starting to fail.

16455 — Comes complete with padded carrying case, headset, solid contact probe, and flex tube.

**Replacement Parts**
16456 — Contact probe.
16458 — Replacement headset.

16451
TruTrack Ultrasonic Sound Generator
An ideal accessory for Robinair’s Model 16455 Ultrasonic Leak Detector, the sound generator detects seal failure in refrigerators, microwaves, vehicle passenger compartments, trunks, and any other location where there should be a good seal. Battery-operated unit emits special frequency from inside the test area; where the sound can be heard, a leak exists.

**Specifications**

<table>
<thead>
<tr>
<th>Power Source</th>
<th>One 9V battery (included)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>4-1/2” L x 3-3/8” W x 3/4” D (11.43 cm x 8.57 cm x 1.9 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>5 oz. (140 g)</td>
</tr>
</tbody>
</table>

43240
Digital Thermometer
- Sampling time is just one second; HOLD button freezes display for accuracy.
- Easy-to-read display can be read even in direct sunlight.
- Durable case includes a cover to protect the probe.
- Min/Max display for reading temperature ranges.

**Specifications**

<table>
<thead>
<tr>
<th>Range</th>
<th>-40°F to 390°F (-40° to 200° C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy</td>
<td>± 2°F between -14°F and 212°F</td>
</tr>
<tr>
<td></td>
<td>± 1°C between -10°C and 100°C, Otherwise: ± 3°F (±1°C)</td>
</tr>
<tr>
<td>Display Resolution</td>
<td>0.1°F (0.1°C) throughout range</td>
</tr>
<tr>
<td>Battery</td>
<td>One 1.5V x 1, Size LR44 (battery included)</td>
</tr>
</tbody>
</table>

43230
Swivel Head Digital Thermometer
- 180° swivel head makes display easier to read in tight places.
- Reliable readings over the entire temperature range.
- Sampling time is just one second.
- Durable case includes a pocket clip.
- For surface, liquid, and air temperatures.

**Specifications**

<table>
<thead>
<tr>
<th>Range</th>
<th>-58°F to 302°F (-50° to 150° C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy</td>
<td>± 2°F between -4°F and 248°F</td>
</tr>
<tr>
<td></td>
<td>± 1°C between -20°F and 120°F, Otherwise: ± 4°F (22°C)</td>
</tr>
<tr>
<td>Display Resolution</td>
<td>0.1° between -19.9 to 199.9, otherwise 1°</td>
</tr>
<tr>
<td>Battery</td>
<td>One 1.5V x 1, Size LR44 (battery included)</td>
</tr>
<tr>
<td>Automatic Power OFF</td>
<td>After 10 minutes if ON/OFF is not pressed.</td>
</tr>
</tbody>
</table>

Dial Thermometers
All pocket thermometers come with a pocket-clip carrying case for protection and easy access. Easy-to-read faces are available in a variety of sizes and ranges.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Temperature</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>10596</td>
<td>-40°F to +160°F</td>
<td>1” dial face</td>
</tr>
<tr>
<td>10597</td>
<td>0°F to +220°F</td>
<td>1” dial face</td>
</tr>
<tr>
<td>10945</td>
<td>0°F to +220°F</td>
<td>1-3/4” dial face</td>
</tr>
<tr>
<td>40859</td>
<td>-40° to +70°C</td>
<td>1” dial face</td>
</tr>
</tbody>
</table>
### A/C Fluorescent Dyes
- Exceeds all industry performance standards.
- Compatible with all materials found in a vehicle's A/C system.
- Meets the new SAE J2297 standard for use with both R-134a and R-1234yf.
- REACH and CLP compliant.

**16240**
64 applications
One 8 oz. bottle

**16241**
64 applications
One 8 oz. bottle

**16242**
12 applications
Twelve 1/4 oz. bottles

**16243**
24 applications
Six 1 oz. bottles

### UV Leak Detection
UV leak detection can be used for both automotive and HVAC-R systems, and dyes won’t harm the system.
- High intensity beam makes even small leaks visible and is bright enough to be used in daylight.
- Rugged case and a shock-absorbing mounting mechanism protect the lamp during use and storage.
- UV bulb is rated for 3000 hours and is economical to replace.
- Comes with a 15’ (4.57 m) long cord with battery clips for automotive use or with a transformer for 115V operation.
- Designed with super luminescence, so leaks are easy to spot, even small ones.
- Won’t affect the viscosity of refrigerant lubricants and is safe for the entire A/C system.
- Speeds service, since there’s no need to recover the charge, add dye, and recharge.


**16355** – UV injection kit includes: Injection gun with R-134a hose and R-12 adapter, four universal A/C dye twist-on cartridges (No. 16356), and service stickers.

**16356** – Universal A/C dyes includes: Four 1 oz./30 ml twist-on cartridges. Enough dye for 20 applications (OEM-approved and SAE-certified dye). For kit Nos. 16350, 16380, and 16355.

**16357** – Six 1/4 oz./7.5 ml twist-on cartridges. Enough dye for six applications (OEM-approved and SAE-certified dye). For kit Nos. 16350, 16380, and 16355.
**TIF7620, TIF7612, TIF7610 IR Thermometer PRO**

- Complete IR design is incorporated inside of a single chip, reducing space and creating a compact and lightweight product.
- Innovative optical lens – accurate measurements; wide temperature range.
- Laser pointer – Easy to define the target area to be measured.
- Extend temperature – TIF7612 and TIF7620 have a thermocouple interface that can extend the temperature up to 1999°F.
- Simple and easy to operate – Simply point at desired target and press the trigger button for a temperature reading.
- Set alarm temperatures (Low and High Temperatures) to receive alert information when you are measured out of the range (TIF7612 and TIF7620 only).
- (MAX), (MIN), Difference between MAX and MIN (DIF), and average (AVG) modes are available in TIF7612 and TIF7620.
- Visual low battery indicator.

### Specification

<table>
<thead>
<tr>
<th>Specification</th>
<th>TIF7610</th>
<th>TIF7612</th>
<th>TIF7620</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement Range</td>
<td>-76 to +932°F (-60 to +500°C)</td>
<td>-76 to +932°F (-60 to +500°C)</td>
<td>-76 to +1400°F (-60 to +760°C)</td>
</tr>
<tr>
<td>Thermocouple Measurement Range</td>
<td>N/A</td>
<td>83.2 to +1999°F (-64 to +1400°C)</td>
<td>83.2 to +1999°F (-64 to +1400°C)</td>
</tr>
<tr>
<td>Accuracy: Tobj = 59°-95°F (15-35°C) Tamb=77°F (25°C)</td>
<td>±1.8°F (1.0°C)</td>
<td>±1.8°F (1.0°C)</td>
<td>±1.8°F (1.0°C)</td>
</tr>
<tr>
<td>Accuracy: Tob = -27-932°F (-33-500°C) Tamb= 73°F ±5°F (23 ± 3°C)</td>
<td>±2% of reading or 4°F (2°C) whichever is greater</td>
<td>±2% of reading or 4°F (2°C) whichever is greater</td>
<td>±2% of reading or 4°F (2°C) whichever is greater</td>
</tr>
<tr>
<td>Thermocouple Accuracy</td>
<td>N/A</td>
<td>±1% of reading or 1.8°F (1°C) whichever is greater (Test under Tamb=73±1°F[23±1°C])</td>
<td>±1% of reading or 1.8°F (1°C) whichever is greater (Test under Tamb=73±1°F[23±1°C])</td>
</tr>
<tr>
<td>Emissivity</td>
<td>0.95 fixed</td>
<td>Adjustable</td>
<td>Adjustable</td>
</tr>
<tr>
<td>Resolution: 14.2°F→199.9°F F (-9.9→199.9°C)</td>
<td>0.1°F/0.1°C (1° below 9.9 and above 199.9)</td>
<td>0.1°F/0.1°C (1° below 9.9 and above 199.9)</td>
<td>0.1°F/0.1°C (1° below 9.9 and above 199.9)</td>
</tr>
<tr>
<td>Spectral Response</td>
<td>5 ~ 14μm</td>
<td>8 ~ 14μm</td>
<td>8 ~ 14μm</td>
</tr>
<tr>
<td>Response Time (90%)</td>
<td>.5 sec</td>
<td>.5 sec</td>
<td>.5 sec</td>
</tr>
<tr>
<td>Distance: Spot</td>
<td>10:1</td>
<td>12:1</td>
<td>20:1</td>
</tr>
<tr>
<td>Battery Life</td>
<td>Up to 18 hours</td>
<td>Up to 18 hours</td>
<td>Up to 18 hours</td>
</tr>
<tr>
<td>Dimensions</td>
<td>175.2 x 39.0 x 71.9mm</td>
<td>175.2 x 39.0 x 71.9mm</td>
<td>175.2 x 39.0 x 71.9mm</td>
</tr>
<tr>
<td>Weight</td>
<td>179 grams including batteries (AAA*2pcs)</td>
<td>179 grams including batteries (AAA*2pcs)</td>
<td>179 grams including batteries (AAA*2pcs)</td>
</tr>
</tbody>
</table>

**TIF7201**

**Pocket IR Thermometer**

- System-on-a-chip SoC technology: compact and lightweight
- Backlit LCD display w/ dual readings
- °C / °F Switch and MAX function
- Auto power off after 15 sec.
- Battery level indication
- Distance to spot (D/S): 1:1

**Applications:**
- Automotive
- Electrical
- General home use
- HVAC/R
- Batteries included
2-Way Brass Manifolds
Robinair brass manifold bodies are constructed from solid brass for added durability needed for repeated, tough daily use. Contoured easy to grip hand wheels are color coded for quick and easy identification.
- Improved face seal valves. Better design provides a tighter seal, less wear and improved flow.
- Double O-ring piston for extra reliability and longer service life.

44150
Dual R12/134a Kit
- Brass manifold with easy-to-grip handles.
- R12/R-134a gauges, PSI and °F Temp.
- 1/2” ACME bottom ports.
- Rear R-134a and 1/2” ACME fittings for holding hoses.
- 90” manual couplers.
- 72” R-134a Hose Set (1/2” ACME x 14mm).
- 72” R12 Hose Set (1/2” ACME x 1/4” MFL).
- Blow molded carrying case.

45111
R-134a Manifold Hose Kit
- Brass manifold with easy-to-grip handles.
- R12/R-134a gauges, PSI, and °F Temp.
- 1/2” ACME bottom ports.
- Rear R-134a and 1/2” ACME fittings for holding hoses.
- 90” manual couplers.
- 72” R-134a Hose Set (1/2” ACME x 14mm).

2-Way Aluminum Manifolds
Manifold bodies are constructed from solid aluminum for added durability needed for repeated, tough daily use. Contoured easy to grip hand wheels are color coded for quick and easy identification.
- Improved face seal valves. Better design provides a tighter seal, less wear and improved flow.
- Double O-ring piston for extra reliability and longer service life.

47150
Dual R12/134a Kit
- Aluminum manifold.
- 90” Manual couplers.
- 72” R-134a Hose Set (1/2” ACME x 14mm).
- 72” R12 Hose Set (1/2” ACME x 1/4” MFL).
- Blow-molded carrying case.

48510
R-134a Manifold Hose Kit
- Aluminum manifold.
- 90” Manual couplers.
- 72” R-134a Hose Set (1/2” ACME x 14mm).
- Blow-molded carrying case.

Economy Manifolds

48134A
R134 brass manifold, 90” manual couplers and 60” R-134a hose set.

49134A
R134 aluminum manifold, 90” manual couplers, 60” R-134a hose set and blow-molded case.

48134B
R12 and R134 brass manifold, 90” manual couplers and 60” R12/R-134a hose sets.

49134B
R12 & R-134 aluminum manifold, 90” manual couplers, 60” R12/R-134a hose sets and Blow-molded case.

41234
R-1234yf Aluminum Manifolds and Hose Set
- Easy-to-read 3-1/8” adjustable gauges.
- Durable aluminum manifold block with fittings.
- Improved face seal valves provide a tight seal, less wear and improved flow.
- Easy-to-grip control knobs.

Digital Manifold Gauges
The low side gauge has a pressure scale of 30 inHg VAC to 250 psig and the high side gauge has a pressure scale of 0 to 800 psig. Gauges come with a backlight to enhance the view and make the gauges easy to see in low light conditions.
- Includes profiles for 17 common refrigerants.
- Detects vacuums in “Hg.
- Selectable temperature and pressure units of measure.
- Easy-to-read LCD screen with large digits.
- Automatic shutdown after 15 minutes of inactivity.
- Low battery indicator.

Part No. Description
11910 Low side digital gauge
11920 High side digital gauge
43180 2-Way Manifold with Digital Gauges - No hoses
43186 2-Way Manifold with Digital Gauges - and 60” Enviro-Guard hoses
A/C Recovery & Recycling
A/C Gauges, Service Couplers and Accessories

Replacement Gauges

- 11780 — Replacement gauge. Blue/Low side - 3-1/4 in. PSI pressure readings and R-1234yf temperature readings in degrees F.
- 11781 — Replacement gauge. Red/High side - 3-1/4 in. PSI pressure readings and R-1234yf temperature readings in degrees F.
- 11784 — Replacement gauge. Blue/Low side - 3-1/4 in. PSI pressure readings and R12/ R-134a temperature readings in degrees F.
- 11785 — Replacement gauge. Red/High side - 3-1/4 in. PSI pressure readings and R12/ R-134a temperature readings in degrees F.
- 11794 — Replacement gauge (replaces 11692). Universal compound replacement gauge, psi/kPa pressure readings, R-22 and R-134a temperature readings in degrees Fahrenheit.
- 11797 — Replacement gauge. Universal compound replacement gauge, psi/kPa pressure readings, R-22 and R-134a temperature readings in degrees Celsius.
- 11795 — Replaces 11693. Universal pressure replacement gauge, psi/kPa pressure readings, R-22 and R-134a temperature. Temperature readings in degrees Fahrenheit.
- 11798 — Replacement gauge. Universal pressure replacement gauge, psi/kPa pressure readings, R-22 and R-134a temperature. Temperature readings in degrees Celsius.
- 11796 — Replacement gauge lens. Replacement gauge lens, quarter turn on-off.

Service Couplers for Automotive R-134a

Field service couplers connect to our special Enviro-Guard hoses to allow access to service ports on automotive R-134a A/C systems. The quick-connect design has an integral safety sleeve, which protects against injury and refrigerant loss if the coupler is disconnected under pressure. The compact design easily fits into tight quarters, which is especially handy for retrofits. Six-ball couplers provide a more stable grip on the fitting than do couplers with four balls.

- 18190A — Low-side manual coupler, blue actuator.
- 18191A — High-side manual coupler, red actuator.
- 18192 — Set of manual service couplers.
- 18341 — High- and low-side automatic couplers.
- 19150 — O-ring kit for field service couplers.

R-1234yf Service Couplers

- Integrated safety sleeve, protects against refrigerant loss.
- Compact design.
- Provides a stable grip on the fitting.

- 18122 — R-1234yf Low side service coupler.
- 18123 — R-1234yf High side service coupler.
- 18124 — R-1234yf High- and low-side service coupler set.

Side-Wheel Manifolds with 1/4” Fittings

Our popular side-wheel manifold is easy to use and designed for accuracy.

Bar — Solid forged brass for long life; handwheels are durable, color-coded Lexan™.

Universal Gauges — Clearly marked so they’re easy to read and protected with Lexan™ lenses.

Field-Proven Face Seal Valve — Prevents leakage past the stem.

Models

- 40152 — Standard side-wheel manifold, color-coded gauges, Fahrenheit scale, brass bar, hand wheels, and hanging hook—no hoses.
- 40151 — Standard side-wheel manifold, color-coded gauges, Celsius scale, brass bar, hand wheels, and hanging hook—no hoses.
- 40153 — Standard side-wheel manifold set, includes three 36” standard hoses with 1/4” fittings.
- 40169 — Standard side wheel manifold set, includes three 60” standard hoses with 1/4” fittings.

Replacement Parts Kit for R-134a Manifold Gauges and Hoses

- 4 manifold stems.
- 6 o-rings, 14 mm.
- 12 valve core depressors.
- 12 hose gaskets, 1/4”.
- 12 manifold stem o-rings.
- 6 Quick Seal™ o-rings for R-134a.
- 2 caps with straps, 1/2” Acme.
- O-ring lubricant (high vacuum grease).
- Valve core remover/installer with 6 valve cores.
- 4 color-coded Lexan™ handwheels & screws.
- Set of R-134a coupler o-rings, high- and low-side.

11780 11781 11784 11785 11794 11795 18190A 18191A 18192 18341 19150 18122 18123 40152
Stem Replacement Assembly Kit
Kits include all necessary parts to service one manifold valve. To replace stems on both valves, order two kits.

- 40232 Stem assembly kit for manifolds with conical seal design.
- 13148 Face seal kit for side-wheel manifolds, includes stem with o-rings, spring, and screw. Will not fit sight glass manifold.
- 13067 High vacuum grease.

Replacement Handwheels
- 40449 Set of one red and one blue with 1/4" drive.
- 41698 Set of one red and one blue with 1/4" drive (barrel style).

Replacement Parts for Hoses and Adapters
Help’s you keep your charging hoses and adapters in top working condition.

- 40082 1/4” valve core depressors, package of six.
- 40083 1/4” gaskets, package of six.
- 40084 3/8” gaskets, package of six.
- 40677 3/16” gaskets, package of six.
- 40653B 3/16” valve core depressors, package of six.

Hoses
- **30072** – Standard hose (500/2500 psi) – 72”, 1/4” SAE internal fitting x 1/4” SAE internal.

Special Hoses for Special Jobs
Enviro-Guard™ Hoses with Ball Valves
In-line ball valves control refrigerant flow, open and close in a quarter turn.
- **65060** – Set of three 60” hoses with ball valves.
- **65160** – 60” Enviro-Guard™ hose with ball valve, yellow.
- **65260** – 60” Enviro-Guard™ hose with ball valve, blue.
- **65360** – 60” Enviro-Guard™ hose with ball valve, red.

Hose Extension Coupler
Connect any number of hoses to get the extra length you need — there’s no need to order special hose lengths.
- **40333** – 1/4” MFL x 1/4” MFL, no valve core.
- **10328** – 1/2” Acme external x 14 mm internal (for automotive R-134a).

20' Charging Hoses
- **68020** – Set of 20’ Enviro-Guard™ red and blue, 1/4” fittings.
- **68420** – Set of 20’ Enviro-Guard™ red and blue, Quick Seal™ fittings.
Charging Hoses
Robinair premium refrigerant charging hoses are built for long life and dependability. A strong, six-sided crimp provides a reliable connection between the hose and barb, even at maximum pressure. The coupler nuts are deeply knurled for quick finger-tightening. Enviro-Guard™ hoses are ideal for high pressure applications, including R-410a systems.

Hose Selection Charts

<table>
<thead>
<tr>
<th>1/4&quot; Standard Hoses with Standard Fittings</th>
<th>Length (inches)</th>
<th>Yellow</th>
<th>Blue</th>
<th>Red</th>
<th>Pkg. Set (Blue, Red, Yellow)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neoprene-coated for flexibility and wear resistance, with a valve core depressor and a 45° bend on one end for convenient access to the system. 500 psi working pressure; 2500 psi burst pressure.</td>
<td>36</td>
<td>31036</td>
<td>32036</td>
<td>33036</td>
<td>30036</td>
</tr>
<tr>
<td></td>
<td>60</td>
<td>31060</td>
<td>32060</td>
<td>33060</td>
<td>30060</td>
</tr>
<tr>
<td></td>
<td>72</td>
<td>31076</td>
<td>32072</td>
<td>31079</td>
<td>30072</td>
</tr>
<tr>
<td></td>
<td>96</td>
<td>31096</td>
<td>32096</td>
<td>33096</td>
<td>N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1/4&quot; Standard Hoses with Quick Seal™ Fittings</th>
<th>Length (inches)</th>
<th>Yellow</th>
<th>Blue</th>
<th>Red</th>
<th>Pkg. Set (Blue, Red, Yellow)</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 psi working pressure; 2500 psi burst pressure.</td>
<td>72</td>
<td>38172A</td>
<td>38272A</td>
<td>38372A</td>
<td>39072A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1/4&quot; Enviro-Guard™ Hoses with Quick Seal™ Fittings</th>
<th>Length (inches)</th>
<th>Yellow</th>
<th>Blue</th>
<th>Red</th>
<th>Pkg. Set (Blue, Red, Yellow)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special barrier material prevents virtually any permeation of refrigerant, yet remains flexible. With 45° Quick Seal™ fittings. 740 psi working pressure; 3700 psi burst pressure.</td>
<td>36</td>
<td>68136A</td>
<td>68236A</td>
<td>68336A</td>
<td>69036A</td>
</tr>
<tr>
<td></td>
<td>60</td>
<td>68160A</td>
<td>68260A</td>
<td>68360A</td>
<td>69060A</td>
</tr>
<tr>
<td></td>
<td>72</td>
<td>68172A</td>
<td>68272A</td>
<td>68372A</td>
<td>69072A</td>
</tr>
<tr>
<td></td>
<td>96</td>
<td>68196A</td>
<td>68296A</td>
<td>68396A</td>
<td>69096A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Enviro-Guard™ Hoses for Automotive R-134a</th>
<th>Length (inches)</th>
<th>Yellow</th>
<th>Blue</th>
<th>Red</th>
<th>Pkg. Set (Blue, Red, Yellow)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meets all specifications for low permeation construction. Clearly marked for R-134a. See page 16 for service couplers. 500 psi working pressure; 2500 psi burst pressure.</td>
<td>72</td>
<td>61072</td>
<td>62072</td>
<td>62244</td>
<td>60072</td>
</tr>
<tr>
<td></td>
<td>96</td>
<td>61096</td>
<td>62121</td>
<td>63096</td>
<td>60096</td>
</tr>
<tr>
<td></td>
<td>240</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>240</td>
<td>NA</td>
<td>NA</td>
<td>62246</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>240</td>
<td>NA</td>
<td>62242</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

Multi-purpose Dye and Coolant Fluorescent Dye

- Brightest dyes in the industry to help find leaks faster.
- Exceeds all industry performance standards.
- OEM backed and approved.
- Solvent-free formula.
- REACH and CLP compliant.

75240
Coolant and Battery Refractometer
This can be used for measuring the freezing point of either propylene and ethylene glycol based cooling systems. It can also be used for checking the strength of electrolyte solution in batteries. This precision instrument features high quality optics with ultra smooth focusing on the body. Coolant scale range: 32° F/0° C to -60° F/-51° C.

75260
Coolant Refiller
- 26 inHg vacuum refills cooling system without air lock.
- Eliminates the need for “bleeding.”
- Checks for system leaks and utilizes OEM approved technology.
- Universal “fits all” cone adapter.
- Built-in gauge protector.
Works on both pressurized and non-pressurized cooling systems.

**Back View:** 7-gallon capacity supply tanks allow storage of different coolants.

### 75700
**Coolant Exchange Unit**
**Designed with the user in mind.**

**Safety First**
- Our "engine off" feature removes pulleys, belts, and fan blades from the safety equation.
- No additional ventilation required.
- Vacuum mode creates a "push/pull" exchange process allowing the technician to safely remove high pressure in a hot system.
- "Hands-off" transfer of used coolant to a bulk tank prevents spills and helps protect the technician.

**Simple to Operate**
- Two clearly marked valves and an easy-to-read gauge make this machine very simple to use.
- Sight glass clearly shows the amount of coolant in the waste tank.
- One valve controls the flow of coolant; process is easy to understand—no special training needed.
- No electricity required. 90 psi shop air drives the exchange process, as well as the 2 gpm pump on the waste tank.

**Designed to Survive**
- Impact-resistant polypropylene cabinet will not scratch or dent vehicle.
- Cabinet is impervious to chemicals commonly used in the shop.
- Large, inflatable tires carry a well-balanced platform easily across any shop floor.
- Easy to maneuver between bays and vehicles.

**Extra Design Features**
- Two external new coolant supply tanks allow on-board storage of two different coolant types.
- Graduations on tanks show user the amount of new coolant on board.
- On-board storage of step adapters.
- Adapter kit included.
- No hoses to cut.
- 96" hoses can be neatly stored on unit.
- One-year warranty.

**Replacement Parts and Accessories**
- **75360** – Heavy-duty adapter kit. Links the two tanks for 14 gal. capacity to service class A vehicles. (Note: must have 7-gallon tank No. 75370).
- **75370** – Replacement 7-gallon coolant tank.
- **17490** – Heavy-duty vinyl protective cover.

### 92500
**Transmission Fluid Exchanger**
- Top-off feature. Add or subtract in 1/10 qt. increments.
- "Low Fluid Alarm" and "Indicator Light" to alert operator.
- "Drain Waste" feature automatically pumps used fluid from the machine into a waste oil container.
- "Drain Pan" feature drains the pan for easy filter replacement. No mess.

**Three modes of operations:**
- Dipstick only, cooler line, or a combination of the two
- Unprecedented one-tenth quart flow metering for adding or subtracting fluid from the pan.
- Complete set of cooler line adapters for most foreign and domestic vehicles.
- Works with all types of automatic transmission fluid.
- Integral performance designed hose and tool compartment with drain.

### 529734 – Replacement nylon tube.

### Specifications

<table>
<thead>
<tr>
<th>Power Supply</th>
<th>90 psi shop air</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tanks</td>
<td>– Internal waste – 15-gallon capacity</td>
</tr>
<tr>
<td></td>
<td>– External supply (2) 7-gallon capacity (removable)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>47&quot; H x 26&quot; W x 33&quot; D (119 cm x 66 cm x 84 cm)</td>
</tr>
<tr>
<td>Medium Step Adapter</td>
<td>Two included; fits hose size 1-1/4&quot;, 1-3/8&quot;, and 1-1/2&quot;</td>
</tr>
<tr>
<td>Large Step Adapter</td>
<td>Two included; fits hose size 1-3/4&quot;, 2&quot;, and 2-1/4&quot;</td>
</tr>
</tbody>
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### 92000
**Transflow Transmission Oil Cooler Flusher**
- Designed to measure oil flow capacity within the transmission oil cooler, and flush contaminated oil from the TOC after repairs.
- Only unit in the industry that performs a flow rate test.
- Flush and flow test time is 5 to 8 minutes.
- 32-quart supply tank; 34-quart waste tank.
- Supply and waste hoses each 10' long.
- 10' long, 12V DC power cables with battery lead clips.
- Requires shop air (90 psi, min.) and 12V DC source.

### Specifications

| Electrical | 12V DC |
| Exchange Accuracy | +/- 1/4 qt. |
| Controls | Microprocessor with digital keypad and LEDs |
| Fluid Tanks | 32 quarts supply (24.6 liters), 34 quarts waste (26.6 liters) |
| Hoses | 91" black & red (Exchange); 76" white transfer tube (Straw) |
| Fluid Types | Multiple fluid capability. |
| Adapter Set | Complete set for most applications. Standard adapters for Ford, GM, Chrysler, European, and Universal (covering most Asian imports). |
| Pump | Positive displacement gear pump, 2 gallons per minute maximum |
| Weight | 158 lbs. (72 kg) |
| Dimensions | 52" H x 33" W x 20" D (132 cm x 84 cm x 51 cm) |
| Process Time | Depends on mode |
| Warranty | 1 year parts and labor |

**OUR 10-MINUTE EXCHANGE PROCESS MEANS NO MORE WAITING FOR THE ENGINE TO WARM UP**

### 96" hoses can be neatly stored on unit.

**Three modes of operations:**
- Dipstick only, cooler line, or a combination of the two
- Unprecedented one-tenth quart flow metering for adding or subtracting fluid from the pan.
- Complete set of cooler line adapters for most foreign and domestic vehicles.
- Works with all types of automatic transmission fluid.
- Integral performance designed hose and tool compartment with drain.

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</tr>
</tbody>
</table>

**Back View:** 7-gallon capacity supply tanks allow storage of different coolants.
Premium High Vacuum Pump Oil
The performance of your pump depends largely on the quality and purity of the vacuum pump oil. Robinair’s oil is engineered to maintain maximum viscosity at high running temperatures and to improve cold weather starts.

To keep the pump operating at peak efficiency, change the oil frequently. Moisture and other contaminants can quickly deteriorate the purity of the oil, thinning the oil, and reducing the pump’s ability to reach deep vacuum conditions.

Thermally Stable
Laboratory tests prove that Robinair oil is more thermally stable in comparison to other leading brands, which means it resists breaking down due to heat for a longer period of time.

Lower Moisture Content
Robinair oil has a lower moisture content than other oils, thanks to our special packaging and handling procedures. Moisture degrades the oil’s purity, thinning it, and reducing the pump’s ability to reach a deep vacuum.

13119 – Pint bottle, 12 per case.
13203 – Quart bottle, 12 per case.
13204 – Gallon bottle, 4 per case.

Change Your Vacuum Pump Oil Frequently
Clean oil is important for peak vacuum pump performance. When the oil is contaminated, it reduces your pump’s ability to remove moisture from a system. You should change the pump oil frequently, and especially in the following situations:

» You have just evacuated a system that you suspect was overly moisture-laden.
» You have just evacuated a system with a compressor burnout.
» The pump oil looks cloudy or milky.
» The pump will not pull to factory specifications when blanked off to an electronic thermistor vacuum gauge.
» Every 10 hours of operation.

The Importance of Deep Vacuum
The purpose of a vacuum pump is to remove moisture and air from an A/C-R system. Modern systems are built tighter and charges are more critical. That means these systems have a greater sensitivity to moisture and other contaminants, making thorough evacuation more important than ever before.

Moisture in a refrigeration system, directly or indirectly, is the cause of most problems and complaints. First, moisture can cause freeze-up in a system. Moisture is picked up by the refrigerant and transported through the refrigerant line in a fine mist, with ice crystals forming at the point of expansion.

“Freeze-up” is not the only problem caused by moisture. It can also result in corrosion, the effects of which are not apparent until the real damage has occurred. Moisture alone is bad enough, but combined with refrigerants containing chlorine, hydrochloric acids can form. These greatly increase the corrosion of metals.

Also, refrigerant oil rapidly absorbs moisture. Water-formed acids combine with the refrigerant, forming a closely bonded mixture of fine globules. The effect is called sludging and it greatly reduces the lubricating ability of the oil.

A vacuum pump removes troublesome moisture by lowering the pressure within the system and vaporizing (or boiling off) the moisture, then exhausting it along with air.

CoolTech™ – The Inside Story
A vacuum pump that’s fast and thorough saves you not only time, but also the expense of callbacks and dissatisfied customers. Robinair pumps perform better than other pumps in the industry, ensuring you complete dehydration before recharging.

Robinair pumps are engineered specifically to meet the needs of the kind of A/C work you’re doing today, and to give you trouble-free operation. We’ve put our years of experience and know-how into developing pumps that help you do the job faster and better.

All Robinair pumps are backed by our exclusive “No Hassle” over-the-counter replacement warranty. You can return a pump to your Robinair distributor for an immediate exchange — with no hassle! (In U.S. and Canada only; in other locations, see your Robinair distributor.)

Robinair CoolTech vacuum pumps are designed for use on A/C-R systems using CFCs, HCFCs, and HFCs in conjunction with mineral oil, ester oil, alkylbenzene oil, and PAG oil as lubricants. Do not use them with ammonia or lithium bromide systems; not for use with flammable refrigerants.

Robinair Vacuum Pumps

High CFM rating for fast, thorough evacuation.

Two-stage rotary vane design.

Iso-Valve™ – Isolates the pump from the system with just a quarter-turn.

Gas Ballast – Moisture laden air passing through the pump mixes with relatively dry air so compression does not cause condensation.

Two-stage Design – Cleans the system more thoroughly than a single-stage pump; the second stage starts pumping at a lower pressure so you can pull a deeper, ultimate vacuum.

Oil Drain Valve – Positioned at the bottom of the oil reservoir and angled for faster, more complete draining.

Oil Fill Port – Makes adding oil simple since the port is accessible from the front or either side. The sight glass on the front of the pump shows you when enough oil has been added.

Heavy-Duty Motor – High torque design for easy startup and efficient operation.

Offset Rotary Vanes – Proven design builds a powerful compression within the pumping chamber to reduce system pressure and vaporize moisture so it can be exhausted along with air.

Molded Base – Durable polycarbonate base improves pump balance and minimizes vibration during operation.

Die-Cast Aluminum Housing – Cast aluminum housings make the pumps lightweight and durable.

System Recommended Pump Size

<table>
<thead>
<tr>
<th>System</th>
<th>Robinair® Pump</th>
<th>VacuMaster™ Pump</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 10 tons (35kW); Domestic Refrigeration, Passenger Cars</td>
<td>–</td>
<td>1.5 CFM (35 l/m)</td>
</tr>
<tr>
<td>Up to 30 tons (105kW); Residential A/C, Panel Trucks &amp; RVs</td>
<td>4 CFM (93 l/m)</td>
<td>3 CFM (71 l/m)</td>
</tr>
<tr>
<td>Up to 50 tons (176kW); Rooftop A/C systems, Tractor/Trailers, Buses</td>
<td>6 CFM (142 l/m)</td>
<td>5 CFM (118 l/m)</td>
</tr>
<tr>
<td>Up to 70 tons (246kW)</td>
<td>10 CFM (236 l/m)</td>
<td>8 CFM</td>
</tr>
</tbody>
</table>

All Robinair pumps are backed by our exclusive “No Hassle” over-the-counter replacement warranty. You can return a pump to your Robinair distributor for an immediate exchange — with no hassle. (In U.S. and Canada only; in other locations, see your Robinair distributor.)

Robinair Vacuum Pumps

- Power and capacity for a wide range of service applications.
- High CFM rating for fast, thorough evacuation.
- Two-stage rotary vane design.

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Gas Ballast – Moisture laden air passing through the pump mixes with relatively dry air so compression does not cause condensation.

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Die-Cast Aluminum Housing – Cast aluminum housings make the pumps lightweight and durable.

### System Recommended Pump Size

<table>
<thead>
<tr>
<th>Model</th>
<th>Free Air Displacement</th>
<th>Factory Micron Rating</th>
<th>No. of Stages</th>
<th>Intake Fitting</th>
<th>Oil Capacity</th>
<th>Motor Size</th>
<th>Voltage</th>
<th>Approvals</th>
<th>Weight</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>15400</td>
<td>4 CFM</td>
<td>15 microns</td>
<td>2</td>
<td>1/4” MFL &amp; 1/2” MFL</td>
<td>15 oz. (445 ml)</td>
<td>1/2 hp</td>
<td>115V 60 Hz</td>
<td>UL</td>
<td>27 lbs. (12.2 kg)</td>
<td>9.75” H x 5.625” W x 15.5” L</td>
</tr>
<tr>
<td>15434</td>
<td>4 CFM</td>
<td>15 microns</td>
<td>2</td>
<td>1/4” MFL &amp; 1/2” Acme</td>
<td>13 oz. (384 ml)</td>
<td>1/3 hp</td>
<td>115V 60 Hz</td>
<td>UL</td>
<td>29 lbs. (13 kg)</td>
<td>9.75” H x 5.625” W x 15.5” L</td>
</tr>
<tr>
<td>15600</td>
<td>6 CFM</td>
<td>15 microns</td>
<td>2</td>
<td>1/4” MFL, 3/8” MFL, &amp; 1/2” MFL</td>
<td>15 oz. (445 ml)</td>
<td>1/2 hp</td>
<td>115V 60 Hz</td>
<td>UL</td>
<td>27 lbs. (12.2 kg)</td>
<td>9.75” H x 5.625” W x 15.5” L</td>
</tr>
<tr>
<td>15120A</td>
<td>10 CFM</td>
<td>15 microns</td>
<td>2</td>
<td>1/4” MFL, 3/8” MFL, &amp; 1/2” MFL</td>
<td>16.5 oz. (488 ml)</td>
<td>1/2 hp</td>
<td>115V 60 Hz</td>
<td>UL</td>
<td>38 lbs. (17.24 kg)</td>
<td>10.75” H x 5.625” W x 16.5” L</td>
</tr>
</tbody>
</table>

### A/C Recovery & Recycling

A/C Vacuum

Selecting the right size pump

The more air a pump moves, the faster it can reach an acceptable vacuum. A smaller pump takes more time to evacuate a system than one that's the correct size for the job.

Use this Chart as a Guide to Selecting the Right Size Pump.

<table>
<thead>
<tr>
<th>Model</th>
<th>Free Air Displacement</th>
<th>Factory Micron Rating</th>
<th>No. of Stages</th>
<th>Intake Fitting</th>
<th>Oil Capacity</th>
<th>Motor Size</th>
<th>Voltage</th>
<th>Approvals</th>
<th>Weight</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>15400</td>
<td>4 CFM</td>
<td>15 microns</td>
<td>2</td>
<td>1/4” MFL &amp; 1/2” MFL</td>
<td>15 oz. (445 ml)</td>
<td>1/2 hp</td>
<td>115V/220-250V 50/60 Hz</td>
<td>CE</td>
<td>29 lbs. (13 kg)</td>
<td>9.68” H x 5.625” W x 15.5” L</td>
</tr>
<tr>
<td>15600</td>
<td>6 CFM</td>
<td>15 microns</td>
<td>2</td>
<td>1/4” MFL, 3/8” MFL, &amp; 1/2” MFL</td>
<td>15 oz. (445 ml)</td>
<td>1/2 hp</td>
<td>115V/220-250V 50/60 Hz</td>
<td>CE</td>
<td>29 lbs. (13 kg)</td>
<td>9.68” H x 5.625” W x 15.5” L</td>
</tr>
<tr>
<td>15121A</td>
<td>10 CFM</td>
<td>15 microns</td>
<td>2</td>
<td>1/4” MFL, 3/8” MFL, &amp; 1/2” MFL</td>
<td>16.5 oz. (488 ml)</td>
<td>1/2 hp</td>
<td>115V/220V 50/60 Hz</td>
<td>CE</td>
<td>41 lbs. (18.60 kg)</td>
<td>10.75” H x 5.625” W x 17.5” L</td>
</tr>
</tbody>
</table>

All Robinair pumps are backed by our exclusive “No Hassle” over-the-counter replacement warranty. You can return a pump to your Robinair distributor for an immediate exchange — with no hassle. (In U.S. and Canada only; in other locations, see your Robinair distributor.)
VacuMaster™
Economy Vacuum Pumps
> Performance tested to meet Robinair’s high standards
> Power and capacity for a wide range of service applications.
> High CFM rating for fast, thorough evacuation.
> Two-stage rotary vane design.

Features:
- Two-stage Design – Cleans the system more thoroughly than a single-stage pump; the second stage starts pumping at a lower pressure so you can pull a deeper, ultimate vacuum.
- Oil Drain Valve – Positioned at the bottom of the oil reservoir and angled for faster, more complete draining.
- Oil Fill Port – Makes adding oil simple since the port is accessible from the front or either side. The sight glass on the front of the pump shows you when enough oil has been added.
- Heavy-Duty Motor – High torque design for easy startup and efficient operation.
- Die-Cast Aluminum Housing – Cast aluminum housings make the pumps lightweight and durable.

Model | Free Air Displacement | Factory Micron Rating | No. of Stages | Intake Fitting | Oil Capacity | Motor Size | Voltage | Weight | Dimensions
--- | --- | --- | --- | --- | --- | --- | --- | --- | ---
**Domestic Models**
15150 | 1.5 CFM | 50 microns | 2 | 1/4” MFL and 3/8” Acme 3/8” FFL x 1/2” Acme adapter | 7.4 oz. (219 ml) | 1/4 hp | 115V 60Hz | 22 lbs. (10 kg) | 9.5” H x 4.75” W x 12.5” L 240 mm x 120 mm x 315 mm
15300 | 3 CFM | 35 microns | 2 | 1/4” MFL and 3/8” MFL 3/8” FFL x 1/2” Acme adapter | 7.5 oz. (220 ml) | 1/3 hp | 115V 60Hz | 28 lbs. (12.5 kg) | 10” H x 5” W x 13” L 255 mm x 123 mm x 336 mm
15500 | 5 CFM | 35 microns | 2 | 1/4” MFL and 3/8” Acme 3/8” FFL x 1/2” Acme adapter | 7.5 oz. (220 ml) | 1/3 hp | 115V 60Hz | 28 lbs. (12.2 kg) | 10” H x 5” W x 13” L 255 mm x 123 mm x 336 mm
15800 | 8 CFM | 35 microns | 2 | 1/4” MFL and 3/8” MFL | 18.6 oz. (550 ml) | 1 hp | 115V 60Hz | 37 lbs. (16.8 kg) | 16” H x 6” W x 10” L 406 mm x 152 mm x 254 mm

**International Models**
15301 | 3 CFM | 35 microns | 2 | 1/4” MFL and 1/2” MFL 3/8” FFL x 1/2” Acme adapter | 7.5 oz. (220 ml) | 1/3 hp | 220V 50Hz | 28 lbs. (12.5 kg) | 10” H x 5” W x 13” L 255 mm x 123 mm x 336 mm
15501 | 5 CFM | 35 microns | 2 | 1/4” MFL and 1/2” Acme 3/8” FFL x 1/2” Acme adapter | 7.5 oz. (220 ml) | 1/3 hp | 220V 50Hz | 28 lbs. (12.5 kg) | 10” H x 5” W x 13” L 255 mm x 123 mm x 336 mm

VacuMaster™
Single-Stage Vacuum Pumps
> Performance tested to meet Robinair’s high standards
> High CFM rating for fast, thorough evacuation.

Features:
- The one-stage rotary vane design – provides powerful, quiet, high vacuum capability and ensures moisture removal, while the high pumping capacity reduces evacuation time.
- Oil Drain Valve – Positioned at the bottom of the oil reservoir and angled for faster, more complete draining.
- Oil Fill Port – Makes adding oil simple since the port is accessible from the front or either side. The sight glass on the front of the pump shows you when enough oil has been added.
- The intake screen – prevents foreign matter from entering the pumping chamber, and an internal exhaust filter separates oil vapor from the exhaust flow.
- Aluminum housing and rotary vanes – Lightweight and easily portable.

Model | Free Air Displacement | Factory Micron Rating | No. of Stages | Intake Fitting | Oil Capacity | Motor Size | Voltage | Weight | Dimensions
--- | --- | --- | --- | --- | --- | --- | --- | --- | ---
**Domestic Models**
15115 | 1.5 CFM | 115 microns | 1 | 1/4” flare and 1/2” Acme | 10 oz. (300 ml) | 1/5 hp | 110V 60Hz | 15 lbs. (6.9 kg) | 13” H x 4.75” W x 11.375” L 332 mm x 120 mm x 293 mm
15310 | 3 CFM | 75 microns | 1 | 1/4” flare and 1/2” Acme | 8.5 oz. (250 ml) | 1/4 hp | 110V 60Hz | 18 lbs. (8.2 kg) | 10” H x 4.75” W x 13.25” L 255 mm x 123 mm x 336 mm
15510 | 5 CFM | 75 microns | 1 | 1/4” flare and 1/2” Acme | 10 oz. (300 ml) | 1/2 hp | 110V 60Hz | 21 lbs. (9.7 kg) | 10” H x 4.75” W x 13.25” L 255 mm x 123 mm x 336 mm
RAVG-1
Digital Vacuum Gauge
Easy as 1 - 2 - 3
Connect, Measure, Test
The RAVG-1 employs a sophisticated MEMS Pirani type sensor that directly measures flow. Unlike all other field service gauges on the market, the RAVG-1 is NOT affected by temperature. The RAVG-1 measures vacuum from Atmosphere to 10 microns in 6 different scales, and can withstand overpressure beyond 30 bar. The unit employs an industry first multi-color backlight that functions as an instant go/no go indicator of acceptable vacuum or leakage.

14777
Compact Electronic Vacuum Gauge
Robinair's 14777 electronic vacuum gauge is just 2-1/2" x 3" in size, but accurate enough to clearly indicate when the system is free from moisture and ready for recharging. Specifically designed for use with a high vacuum pump, the 14777 measures to 10 microns.

14777 Features
- High Resolution and unique backlight indicator make precision readings easy
- Patent Pending design, employs a sophisticated MEMS Pirani sensor
- Range from Atmosphere down to 10 microns
- Measure vacuum in Microns, mmHg, inHg, mBar, Pascals or Torr
- Extremely accurate at low micron levels
- Impact and water resistant case with protective Rubber boot
- Rapid response to changes in vacuum
- Large easy to read 5 digit display
- Auto shut off feature prolongs battery life
- Battery powered
- Integrated “magnetic” hook
- Includes carrying case and tee adapters or in-line connections (1/4” MFL x 1/4” MFL and 1/4” FFL x 1/4” MFL versions)

14777 Specifications
- Operating Range: Atmosphere to 10 Microns
- Resolution: As low as 5 Microns/ 0.005mmHg/0.002inHg/0.007mBar/0.66Pa/0.005Torr
- Accuracy: As low as +/- 5 % of RDG
- Over pressure: ~ 31 Bar/450 psi
- Measuring Units: Microns/mmHg/inHg/mBar/Pa/Torr
- Display: 5 digit STN LCD, 50 x 30 mm with tricolor LED backlight
- Power Supply: 3 x size “AAA” 1.5 V batteries included
- Input Connection: 1/8”-27 NPT Male

Pump Intake Fitting
R-12/R-134a Dual Inlet Fitting Convert your pump to R-12 and R-134a. Solid brass tees replace inlet fittings on pump; includes a branch with a 1/4” MFL fitting for R-12 (and other refrigerants) and a branch with 1/2” Acme fitting for automotive R-134a.

13110
Pump Intake Fitting Adapter:
13110 – Adapter, 3/8” FFL to 1/4” MFL.

Also Available:
15555 – Screw-on inlet adapter converts any pump, 1/4” FFL coupler x 1/4” MFL x 1/2” Acme.
15195 – 1/4” MFL/1/2” Acme combination inlet fitting for 15200 series vacuum pumps.
15495 – 1/4” MFL/1/2” Acme combination inlet fitting for 15400/15600 series vacuum pump.
Slimline Refrigerant Scales

The TIF Slimline scales offered industry leading accuracy and performance with the choice of getting the familiar usability and quality in either a 120 pound/55 kg, or 200 pound/91 kg. capacity.

Features

- Touch Key controls.
- Three display modes – Lbs./oz.; Decimal Lbs., Kilograms.
- Extremely Accurate.
- Auto Zero.
- Removable platform and control box with prop stand/hanging hook.
- Compact design, completely portable.
- Removable control box with prop stand/hanging hook.
- CE approved.
- Two year warranty.
- Blow molded case.

Economy Digital Refrigerant Scale

- Easy to carry and store.
- Capacity up to 220 lbs. (100 kg). Display shows lbs./oz. and kg.
- High accuracy (±0.5 oz.) and resolution (0.1 oz).
- 9-volt battery power.
- Platform to adapt to most existing tanks (9” x 9”).
- Three control keys: On/Off, automatic zeroing, and measurement units.
- Charging and recovery capabilities.
- CE approved.
- One-year warranty.

TIF9030 – Economy digital refrigerant scale.
TIF9031 – Economy digital refrigerant scale carrying case.

TIF9055

Certified Refrigerant Scale

- 220 pound / 100 kg capacity.
- Allows automatic charging or recovery operations.
- Color-coded keypad controls.
- Three display modes – lbs./oz.; decimal lbs.; kilograms.
- Very high resolution – 0.2 oz./0.010 lbs./4 grams.
- Can be used with all refrigerants.
- Advanced charge and recovery modes – uses tare weight and maximum capacity of cylinder to calculate maximum charge/recovery available.
- User programmable memory for up to 99 different stored values.
- “Repeat” charge feature.
- Removable platform and control box with prop stand/hanging hook.
- Compact design – completely portable, battery powered.
- Low battery indicators.
- Five-year warranty.

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>TIF9010A</th>
<th>TIF9020A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range 15.8 oz., OR</td>
<td>0 lbs. 0.0 oz. to 120 lbs. 0.0 oz., 0.000 lbs. to 120.000 lbs., OR 0.000 kg to 55.000 kgs</td>
<td>0 lbs. 0.0 oz. to 199 lbs. 0.000 lbs. to 199.990 lbs., OR 0.000 kg to 100.000 kg</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.1 oz./0.005 lbs./2 grams</td>
<td>0.2 oz./0.010 lbs./4 grams</td>
</tr>
<tr>
<td>Accuracy</td>
<td>± 0.5% of reading</td>
<td>± 0.5% of reading ± 1 digit</td>
</tr>
<tr>
<td>Operating Temp</td>
<td>32º to 120ºF (0º to 49ºC)</td>
<td>32º to 120ºF (0º to 49ºC)</td>
</tr>
<tr>
<td>Power Supply</td>
<td>9VDC</td>
<td>9VDC</td>
</tr>
<tr>
<td>Battery Life</td>
<td>30 hours</td>
<td>30 hours</td>
</tr>
<tr>
<td>Coil Cord Length</td>
<td>6 ft. (1.8m)</td>
<td>6 ft. (1.8m)</td>
</tr>
</tbody>
</table>

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>TIF9010A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range</td>
<td>0 lbs. 0.0 oz. to 219.99 lbs., OR 0.000 lbs. to 219.990 lbs., OR 0.000 kg to 100.000 kg</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.2 oz./0.010 lbs./4 grams</td>
</tr>
<tr>
<td>Accuracy</td>
<td>± 0.5% of reading</td>
</tr>
<tr>
<td>Power Supply</td>
<td>Four AA batteries &amp; one 9V battery</td>
</tr>
<tr>
<td>Battery Life</td>
<td>30 hours</td>
</tr>
<tr>
<td>Max. Solenoid Operating Pressure</td>
<td>500 psi</td>
</tr>
<tr>
<td>Operating Temp.</td>
<td>32º F to 120ºF (0º C to 49ºC)</td>
</tr>
<tr>
<td>Inlet/Outlet Ports</td>
<td>1/4&quot; MFL fittings with 1/2&quot; ACME adapters</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 7 lbs.</td>
</tr>
</tbody>
</table>
Replacement Cutter Wheels

These top quality replacement cutter wheels are thinner for cleaner cuts with less effort. Made of high quality, shock-resistant, tool steel, the cutters are also heat treated to resist breakage and last longer. Cutter wheels are available to fit Robinair cutters, and can be used as replacements in nearly all other brands.

Replacement Wheel Chart

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Fits Cutter No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>42062</td>
<td>42028</td>
</tr>
<tr>
<td>42073</td>
<td>42071</td>
</tr>
<tr>
<td>42083</td>
<td>42080, 42090</td>
</tr>
</tbody>
</table>

Heater Blanket

Robinair’s heater blanket speeds charging by maintaining a constant temperature, thus creating a positive pressure between the refrigerant tank and the A/C system.

- Fits 30 and 50 pound refrigerant tanks.
- Thermostat is set at 125°F (55°C).
- 300 watts, 2.6 amps.
- Thermal cut-off switch protects against overheating.

International Models

13184 – Heater blanket, 220V–240V 50 Hz, with internal IEC receptacle.

Heavy-Duty Tubing Cutter

- Works on tubing sizes 1/8” to 1-1/8” O.D. (3 mm to 29 mm).
- Easily cuts copper, brass, aluminum, and steel brake lines.
- Ream folds onto cutter body for storage.
- Extra cutting wheel stored under ream.

42080, 42090

Ratcheting Tubing Cutters

- Designed for confined spaces.
- Unique ratcheting action operates like a socket ratchet, but cuts copper, aluminum, stainless steel, and PVC.
- Spring-loaded adjusting screw applies continuous pressure while cutting.

42071 – Ratcheting tubing cutter for 1/8” to 1/2” tubing.
42080 – Ratcheting tubing cutter for 1/4” to 7/8” tubing.
42090 – Ratcheting tubing cutter for 1/4” to 1-1/8” tubing.

Slip-Adjust Tubing Cutter

- All metal construction.
- Spring-loaded cutting tool for faster cutting.
- Two locations for spare cutting wheels (1 included).
- For 1/4” to 2” tubing.
- Includes attached reaming tool.

42035

Mini Tubing Cutter

With a short swing radius, this cutter makes quick work of cutting tubing in tight spots. The 42022 is especially versatile with its larger range: 1/8” to 1-1/8” O.D. tubing capacity.

42022

42024

Mini Tubing Cutter

With the smallest cutting radius in the industry, the 42024 is ideal for extremely tight places. A finer thread screw provides easier tightening. For 1/8” to 5/8” O.D. tubing.

42028

42024

Tubing Cutter

Our roller-type cutter makes clean cuts in copper, aluminum, steel, and stainless steel tubing. Features easy action, wide capacity range, and a pencil reamer. For 1/4” to 1-1/2” O.D. tubing.

42028

6514

Mini Tubing Cutter

- Works on tubing sizes 1/8” to 5/8” O.D. (3 mm to 16 mm).
- Easily cuts copper, brass, aluminum, and steel brake lines in hard-to-reach places.
- Ream folds onto cutter body for storage.
- Extra cutting wheel stored under ream.

6514

42035

Slip-Adjust Tubing Cutter

- All metal construction.
- Spring-loaded cutting tool for faster cutting.
- Two locations for spare cutting wheels (1 included).
- For 1/4” to 2” tubing.
- Includes attached reaming tool.

42035

42080, 42090

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Ream folds onto cutter body for storage.

42035

Mini Tubing Cutter

Works on tubing sizes 1/8” to 5/8” O.D.
(3 mm to 16 mm).
- Easily cuts copper, brass, aluminum, and steel brake lines in hard-to-reach places.
- Ream folds onto cutter body for storage.
- Extra cutting wheel stored under ream.

6514

42080, 42090

Ratcheting Tubing Cutters

- Designed for confined spaces.
- Unique ratcheting action operates like a socket ratchet, but cuts copper, aluminum, stainless steel, and PVC.
- Spring-loaded adjusting screw applies continuous pressure while cutting.

42071 – Ratcheting tubing cutter for 1/8” to 1/2” tubing.
42080 – Ratcheting tubing cutter for 1/4” to 7/8” tubing.
42090 – Ratcheting tubing cutter for 1/4” to 1-1/8” tubing.

Ream folds onto cutter body for storage.

42035

Mini Tubing Cutter

Works on tubing sizes 1/8” to 5/8” O.D.
(3 mm to 16 mm).
- Easily cuts copper, brass, aluminum, and steel brake lines in hard-to-reach places.
- Ream folds onto cutter body for storage.
- Extra cutting wheel stored under ream.

6514

42080, 42090

Ratcheting Tubing Cutters

- Designed for confined spaces.
- Unique ratcheting action operates like a socket ratchet, but cuts copper, aluminum, stainless steel, and PVC.
- Spring-loaded adjusting screw applies continuous pressure while cutting.

42071 – Ratcheting tubing cutter for 1/8” to 1/2” tubing.
42080 – Ratcheting tubing cutter for 1/4” to 7/8” tubing.
42090 – Ratcheting tubing cutter for 1/4” to 1-1/8” tubing.

Ream folds onto cutter body for storage.

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42040
Single Blade Deburring Tool
This handy tool removes internal burrs in copper tubing. It features a high-speed steel blade, aluminum handle, and pocket clip. Tubing size is unlimited.

10861
Clutch Plate Remover/Installer
These compact tools are used both to remove the clutch for access to the shaft seal and to re-install it by simply inverting the nut and main bearing.

10861 – A6, R4. 41067 – V5, DA6, HR6.

7238
Spring Lock Coupler Disconnect Set
Set includes four sizes for use on 3/8", 1/2", 5/8", and 3/4" tubes. Allows quick, safe disconnect of spring lock couplers on late model Ford systems and Tecumseh HR980 compressors.

6511
Fuel Line Disconnect Tool
Special low-profile design works in close quarters on GM, Ford, and Chrysler vehicles where there is limited clearance between the fuel line fittings and fuel filters, fuel rails, or sending units. This tool is designed to access the center port on the GM fuel tank sending unit. For 3/8" and 1/2" applications; will also service 2001 thru current 3/4- and 1-ton trucks with the Duramax Diesel engine.

4536
A/C Clutch Pulley Puller Set
For removal of stubborn air conditioning clutch pulleys. Also used on many alternator, generator, power steering, and crankshaft pulleys, harmonic balancers, and fiber timing gears.
Set includes drop-forged components: one 3/4"-16 x 5" live-center forcing screw, 5-1/2" crossbar with three spread settings, two pairs of jaws, and a clamp bolt.
Spread: 3" to 5"; Reach: 1" to 5".
Includes blow-molded plastic case.

4537
A/C Clutch Holding Tool
This three-stud spanner wrench keeps the A/C clutch from turning when loosening or tightening the retaining nut. Adjusts quickly with brass thumbscrews to fit various styles of A/C compressors used on GM, Ford, and Chrysler vehicles. Also fits a variety of other pulleys.

4503
Double Flaring Tool Kit
Designed for double or single flare in copper, aluminum, soft steel brake line, and brass tubing (to 45 degrees).
Includes five adapters 3/16" through 1/2" (4.8 mm through 12.7 mm).

4504
Bubble (I.S.O.) Flaring Tool Kit
Designed for crack-free bubble flares on soft steel tubing used in automotive brake systems.
Includes four dies: 4.75, 6, 8, and 10 mm adapters.
Forged steel yoke, flaring bar, and all the adapters needed for ISO bubble flaring.
The most economical "Bubble" flare tool to date. Housed in a blow-molded storage case.
18410
Hydraulic Flaring Kit
- Fabricates a variety of fuel, brake and A/C line flares.
- Push connect 1/4, 5/16 and 3/8".
- GM fuel line, brake line and transmission 5/16 and 3/8".
- Flare and double flare.
- Metric bubble flare.
- Comes in a custom blow molded case.

12540
Tubing reamer

18706
Eccentric flaring tool

18403
Fin Straightener
- Clean and straighten condenser and evaporator coils.
- Compact design for confined spaces: the straightener head is 3-1/8" in diameter; the handle is 3-1/2" long.
- Includes 12 clearly marked combs
  Wheel 1: 8, 9, 10, 12, 14, & 15 fins per inch
  Wheel 2: 10.5, 11, 13, 18, 20, & 22 fins per inch

18560
Valve Core Remover / Installer
Remove and install the valve core from a 1/4" male flare access fitting without the loss of refrigerant. Durable, solid brass tool has a ball valve that can be opened and closed in just a quarter-turn, rather than a stem-type valve. Designed with a stainless steel ball and brazed side fitting for durability and long life.

14774
Pick Extractor
For use with No. 18560 or 18561, valve core remover/installer, this extractor lets you remove damaged cores in the service line while the system is fully charged. There's no release of refrigerant into the atmosphere.

Access Valve Core Removers
Save Service Time
These handy tools remove valve cores without losing the system charge. They're designed specifically for use during evacuation or recharging on any system with valve core-type access ports. Removing the core restriction results in maximum flow, greatly reducing the time required for evacuation and charging.

11014
R-12 Valve Core Remover
Services late model GM cars with deeper valve cores.

10588
R-134a Valve Core Remover
Our popular valve core remover/installer has been engineered for use when servicing deeper core R-134a A/C systems.

13145
1/4" Valve Core Remover, pkg/6
Robinair's standard valve core remover includes six replacement valve cores which store in the tool's body.
**Quick Seal™ Adapters**

Quick Seal fittings automatically shut off the charging hose when you disconnect it from the system, so any refrigerant left in the hose is not released. This also prevents “finger burn” and adds an extra measure of safety. Made of solid brass.

- **10292** – 1/4" MFL to 1/4" FFL.
- **10250** – 1/4" MFL to 1/4" FFL, 90°.

**Quick Seal Repair Kits**

- **18451** – 45° 1/4" Quick Seal™ kit.
- **40302** – 1/2" Acme Quick Seal™ kit.

**Brass Caps**

- **40572** – 1/4" solid brass caps have knurled ridges for easy gripping. Package of six.
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