

# 2011

## PRODUCT CATALOG



A Bosch Group Company

NOTES:

1. DEBUR ALL EDGES
2. UNLESS OTHERWISE SPECIFIED, ALL SURFACES  $32\sqrt{R}$

MAIN UNITS: INCHES

TOLERANCES  
(EXCEPT AS NOTED):

DECIMAL  
1 PLACE  $\pm 0.1$   
2 PLACES  $\pm 0.01$   
3 PLACES  $\pm 0.005$

FRACTIONAL  $\pm 1/32$

ANGLES

**RTI TECHNOLOGIES, INC.**  
10 Innovation Drive • York • PA 17402

MODEL: RHS980

PART NAME:

SCALE:

1:8

SOLID BY: A/K

DRAWN BY: C

DATE: 6/1

PLATE BASE RHS980

RTI  
Technologies

REVISION  
N



**Equipment for the Most Productive Technicians in the World**



## RTI Technologies is now a Bosch Group Company

By becoming part of Bosch, RTI is combining its industry-leading equipment distribution and engineering technologies with the resources of a world leader in the automotive industry. It's the perfect fit to deliver new markets, new technologies, and new ways of bringing the best in automotive service equipment to our customers worldwide.

Factory: RTI Technologies, Inc., York, Pennsylvania, USA  
Distributors and Service Facilities: Distributors and Service Facilities Throughout the World.

Distributed By:



A Bosch Group Company

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**A Bosch Group Company**

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*RTI Technologies proudly manufactures their equipment in York, PA.*

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# go PRO!

**ArcticPRO**<sup>®</sup>  
A/C Service Equipment

**NitroPRO**<sup>®</sup>  
Nitrogen Tire Inflation Systems

**FluidPRO**<sup>®</sup>  
Fluid Exchange Systems

The PRO equipment line from RTI:

Leading edge technology that builds your productivity and profitability

Shop owners and managers looking for the best way to maximize their technicians' output are choosing the PRO series of products from RTI Technologies. Each of our three PRO series lines offers the latest in technology and design to improve service speed, increase process accuracy and minimize downtime. No wonder leading chains around the world choose the RTI PRO series to serve their customers.

*Choice of the world's largest service chains (Jiffy Lube, Valvoline, Goodyear, Firestone, Midas, Meineke, AAMCO).*

*Nationwide service center network*

*Lifetime toll-free technical assistance*

*One of the industry's best warranties and RTI's exclusive "No Lemon" guarantee*

*On-site set-up and training available*

*Promotional materials available to promote PRO equipment services*



**ATX**  
Automatic Transmission  
Fluid Exchangers

**BFX**  
Brake Flush  
Systems

**PSX**  
Power Steering  
Fluid Exchangers

**DCS**  
Diesel Cleaning  
Systems

**NTF**  
Nitrogen Tire Inflation  
Systems

**MCX**  
Multi-Coolant  
Exchangers

**DFX**  
Differential Fluid  
Exchangers

**RHS**  
Digital A/C Refrigerant  
Handling Systems

**VCX-II**  
Vacuum Coolant  
Exchangers

TechALERT  
COMPATIBLE

TechALERT  
COMPATIBLE

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TechALERT  
COMPATIBLE

TechALERT  
COMPATIBLE

**PROUDLY  
BUILT  
in York, PA**



### 2008 PTEN Innovation Award

RTI's TechALERT® earned the 2008 Professional Tool and Equipment News Innovation Award in the tools and accessories category. This prestigious award is bestowed upon newly developed tools and equipment by an independent panel of technicians not affiliated with the publication. According to PTEN,

*“Of special note is RTI's TechALERT®. TechALERT® was the highest rated tool nominated, receiving a near perfect score from the judges for its innovative and unique approach to improve shop efficiency.”*

### TechALERT® Remote – Front View (Actual Size)

- Durable & lightweight
- High-strength composite housing
- (4) Sealed LEDs communicate process status



### Handy and Versatile

TechALERT® delivers status indication through the following differentiated alerts...

**Process On-Going** – equipment is performing normal operation

**Process Interrupted** – technician assistance is required ASAP

**Remote Out of Range** – technician must return within signal range of TechALERT® base

**Operation Complete** – service completed, equipment may be operated elsewhere

Up to four (4) separate RTI TechALERT® compatible machines can be monitored simultaneously by one TechALERT® remote plus several technicians can independently synchronize their individual remote to the same RTI machine to keep high demand equipment in constant use!



### TechALERT® Remote – Rear View

- Integrated clip provides secure pocket placement

### Specifications

Electrical	3.0 V, requires (2) AAA batteries for power; batteries included.
Operating Range	Up to 300 feet nominally from base unit (Certain conditions may increase or decrease distance accordingly.)
Battery Operating Life	90 days typical (certain conditions may increase or decrease life accordingly)
Low Battery Indicator	Included, LED, buzzer & vibration alert signals
Remote Dimensions	5.5 in x 1.0 in x 0.8 in (14.0 cm x 2.5 cm x 2.0 cm) (L x W x D)
Remote Weight	3.0 ounces (batteries included)
Shipping Box Dimensions	10.75 in x 7.5 in x 3.5 in (L x W x D)
Shipping Weight	2.0 lb (box and components)
Warranty	1 Year - parts

**TechALERT® Base and Remote**  
(AAA batteries included)

**P/N 495-80000-00**

**TechALERT® Universal Remote only**  
(AAA batteries included)

**P/N 495-80001-00**

## TechALERT®

Increase your technician's productivity with TechALERT® - RTI's patented remote paging device developed to provide on-going operational status of RTI equipment.

### Productivity Maximizer

Having a technician "tied" to a machine during its entire service cycle is an inefficient use of shop manpower. RTI provides the solution by offering TechALERT®, an exclusive patented wireless communication tool designed to enhance shop productivity.



*TechALERT® boosts shop productivity by giving the technician the ability to perform additional services while remotely monitoring the operation status of RTI equipment.*

With this newly patented technology, TechALERT® sends a wireless signal to a remote pager carried by the technician and provides process status on TechALERT® compatible shop equipment with visual, audible and vibration alerts.

### TechALERT® Base with Docked Remote

- TechALERT® base has storage pocket for remote
- Base mounts to RTI service machine
- Base LED indicator confirms successful remote synchronization



## Up Time and Service Support

- **Warranty** - RTI has the best Standard Warranty in the business, 2-Years, no-hassle parts and labor with a No-Lemon guarantee, plus RTI offers the only factory 3-year warranty extension.
- **Swap-Out Manifold Assembly** - A unique 2-piece, patented KWIK-CHANGE "block" manifold assembly provides rapid removal & replacement to remedy most fluid path service issues, fast! In fact, RTI can overnight a "swap-out" KWIK-CHANGE manifold to your location to get you back up & running.
- **On-Board Diagnostics** - The RHS<sup>®</sup>980 Series has built-in diagnostics capability to quickly resolve any service issues. The unit is able to diagnose solenoid, transducer, compressor, vacuum pump, thermistor and calibration functions without pulling the cover.
- **Refrigerant Filter Access/Replacement** - The SAE J2788 Standard mandates filter replacement on a regular basis which is simple to do on the RHS<sup>®</sup>980 Series.
- **Overall Serviceability** - Described by service centers as excellent, the RHS<sup>®</sup>980 Series features one-piece removable cover, wide-open modular component placement, outside refrigerant filter access, quick-disconnect wiring harnesses, KWIK-CHANGE block manifold, individually serial numbered equipment and web-site technical document access.



### Exterior - Rear Panel

- 10 Micron in-line hose screens – prevents contaminants from entering unit
- Vacuum pump oil – fill/drain
- Virgin refrigerant cylinder storage shelf



### Exterior – LH Side

- Slide-out removable pocket
- Provides quick, easy access to refrigerant filter
- Convenient document storage



### USB Port

- Handily accommodates data base upgrades
- Convenient for printer downloading



### Cover Assembly

- One-piece composite
- Easily removed

- Typical Service Turn-Around - 48 hours is the average time to get an RTI fluid service machine back up and running.

## Customization Capability

- **Integral Mounted Printer** - Is factory and field available and will record date, time, amount recycled and amount charged.
- **Integral Mounted Refrigerant Identifier** - Uses a separate sample hose to keep contaminated refrigerant from entering RHS<sup>®</sup>980 Series components and is available as a factory or field installation.
- **TechALERT<sup>®</sup>** - Keeps your RHS<sup>®</sup>980 Series equipment in constant use by continually informing technicians of equipment operational status.
- **Upgradeable Software** - RTI's ArcticPRO<sup>®</sup>RHS<sup>®</sup>980 Series platform was developed for future upgrade capability to incorporate additional or different operational/functional revisions to ensure up-to-date machine functionality even with mature equipment. Equipment upgrading is accomplished by using a USB thumb drive and uploading new files into the RHS<sup>®</sup>980 Series processor.
- **Factory Set-Up & Training** - RTI provides factory set-up and training with every RHS<sup>®</sup>980 Series we deliver.

### Fully Automatic Operation

- Recover, recycle
- System oil capture
- Vacuum
- Leak test
- Charge, includes auto air purge & low refrigerant indicator



**TechALERT<sup>®</sup>**  
COMPATIBLE

### Controls

- All controls mounted in 180-degree rotating turret
- Easy to use function input and display pad
- Large highly visible characters
- Intuitive menu-driven functions
- Pre-programmed languages (English, Spanish, French)
- Large-face pressure gauges

### Exterior – RH Side

- Oil capture bottle
- Oil charge bottle
- Easy exterior accessibility

### Rear Wheel Assemblies

- Cushioned, non-inflatable
- Permanently lubed bearing
- No maintenance required

# ArcticPRO® RHS®980 Series Digital R134a Refrigerant Handling Systems

Three SAE J2788 certified models now available to handle every application. All feature the following benefits:

## SAE J2788 Productivity

- Recover 95% refrigerant from automobile A/C systems
- Refrigerant recharge accuracy within +/- 1/2 ounce
- Fully programmable automatic operation

## Superior System Performance

RHS®980 Series consistently outperform competitive models with the fastest service times and best charge and recovery accuracy. This means faster services, less wasted refrigerant, increased customer satisfaction and better margins for the A/C shop.

## Leading Edge Equipment Functionality

- The RHS®980 Series has the highest useable refrigerant percentage in the field and requires only one lb. of R134a in its internal cylinder for proper operation. This results in a

higher useable capacity of 23.0 lbs. for the RHS®980 Series internal cylinder.

- The RHS®980 Series 6.0 CFM vacuum pump contributes to the best performing unit in the business.
- A/C Refrigerant Database - Upload the correct A/C specs right into the RHS®980 Series processor for exact refrigerant charge amounts which are critical for today's smaller capacity systems.
- Variable Position Control Panel – the turret rotates 90 degrees in either direction for unrestricted viewing capability to eliminate machine repositioning for the technician.
- Cushioned non-inflatable tires mean no maintenance over the life of the equipment.

### Interior – LH Side

- Exclusive KWIK-CHANGE "block" manifold assembly
- Industrial-duty cooling fan

- Shock-resistant cylinder mounting
- Industrial-strength weight scale

- State-of-the-art printed circuit board technology
- 30 lb. charging cylinder

### Interior – RH Side

- Aircraft-quality wiring harness
- High-CFM rated vacuum pump
- High-capacity compressor with oil return, electronically controlled pressure regulation
- Rigid steel base – robust component platform
- Fully-locking, self-cleaning front casters

### KWIK-CHANGE "Block" Manifold Assembly

- Patented design
- Premium high-flow capacity solenoids

- Low-side combination filter – includes full capacity alert

- Suction accumulator

- Oil separator





# ArcticPRO® RHS®980H R134a Refrigerant Handling System

The industry's first SAE J2788H High Voltage Addendum independently certified A/C Service Machine.



**Engineered for Hybrids\*,  
Perfect for All R134a A/C Systems**

**J2788H "high-voltage addendum"  
independently certified**

The ArcticPRO® RHS® 980H is certified by an independent testing laboratory to the high-voltage addendum so it can service hybrid\* and non-hybrid powered vehicles. The absence of on-board oil injection capability and a service hoses flush feature make this possible.

\*The term hybrid is specifically referring to High Voltage Electric Drive Compressor Applications.

*RHS980H / RHS980C Shown*

**Important!** An SAE J2788 non-addendum certified machine equipped with on-board oil injection and service hose flush feature should NOT be used for both hybrid\* and non-hybrid back-to-back vehicle servicing due to risk of vehicle shutdown and for technician safety.



**TechALERT®  
COMPATIBLE**



# ArcticPRO® RHS®980C R134a Refrigerant Handling System

The world's most capable A/C service equipment.

## Vehicle A/C System Diagnostics

The RHS®980C is the only J2788-certified machine in the world that will perform a vehicle A/C system performance evaluation without having to conduct a recovery, recycle and recharge routine.

## Dual Vacuum Operation Functions

Select to run a standard or enhanced vacuum procedure.

The enhanced cycle performs an ultra-deep vacuum process to replicate factory vehicle A/C system conditions prior to refrigerant charge, which is desired by many OEM's for A/C warranty work.

## Integrated Micron Sensor

No other J2788-certified A/C handling system offers an integrated micron sensor for precise vacuum level measurement.

## RHS®980C – Set Up for OEM Operation

*See RHS®980 for additional details/images*

## OEM Style Features

- Standard integral mounted printer
- Function upgrade port
- (3) temperature sensors
- Steel maneuverability handle
- Optional refrigerant identifier



*Refrigerant Identifier is optional*

## OEM Style Feature and Function Upgrades

- Standard integral printer
- Standard temperature probes
- High pressure leak detect function
- Password use protection
- Micron level measurement during evacuation process
- Ambient temperature & humidity
- Self check/diagnostic function
- Dual vacuum process service modes
- Manual oil/dye injection
- Liquid refrigerant flush function
- Optional integral refrigerant identifier
- High voltage compatible

# ArcticPRO® RHS®980 R134a Refrigerant Handling System

Establishes a new productivity benchmark for SAE J2788 certified A/C service equipment!



## Superior Productivity

The ArcticPRO® RHS®980 recovers 95% of automobile refrigerant systems and has a refrigerant recharge accuracy of +/- 1/2 ounce to save money and eliminate comebacks. It features fully automatic operation and when utilized with TechALERT®, the RHS®980 dramatically boosts workshop productivity.

## Ease-of-Use = Improved Efficiency!

All control functions of the RHS®980 are designed to provide intuitive and rapid interaction with the service technician. The ArcticPRO® RHS®980 makes A/C servicing a breeze!

## Advanced Serviceability

Simply remove the one-piece composite cover to gain unobstructed service access to all interior components. The RHS®980's unique two-piece KWIK-CHANGE "block" manifold assembly provides quick remedy to most fluid path service issues.

## Proven Reliability

For the best out-of-box reliability, the RHS®980 unit specifies the highest quality components and every machine is functionally tested before shipment from the RTI factory.

**RHS®980 R134a\***  
Digital A/C Refrigerant Handling System **P/N 460-80315-00**

**RHS®980H R134a\***  
Digital A/C Refrigerant Handling System,  
High-Voltage Compatible **P/N 460-80319-00**  
\*Includes RHS®980 Set-Up & Training DVD

**RHS®980C R134a**  
OEM Grade A/C Refrigerant Handling System **P/N 460-80313-00**  
Includes RTI Rep Set-Up & Training

**Optional Equipment:**  
**Printer – Factory Installed (Std w/RHS®980C)** **P/N 360-82181-00**

**Printer Kit – Plug & Play Installation** **P/N 360-82182-00**

**A/C Database - Pass Car / Lt Truck, MY2010 & Earlier** **P/N 360-82473-00**

**Integrated Refrigerant Identifier-Factory Installed** **P/N 360-82179-00**

**Refrigerant Identifier Kit – Plug & Play Installation** **P/N 360-82180-00**

**ArcticPRO® Productivity Package, includes:** **P/N 465-80061-00**

TechALERT® w/ Base & Universal Remote **P/N 495-80000-00**

A/C Refrigerant Database, MY 2010 & Earlier **P/N 360-82473-00**

3 Year Warranty Extension - 5 Yrs Parts/2 Yrs Labor, Total **P/N 360-82176-00**

ArcticPRO® Service Shop Display Banner (Rugged Vinyl Coated Material, 84 in x 33.5 in) **P/N 035-81393-00**

*Individual Productivity items can be ordered separately*

## Specifications RHS®980, 980H, 980C

Electrical	120VAC - 60HZ - 12 AMP 230VAC - 50HZ - 6 AMP (Optional)
Shipping Dimensions	50 in x 22 in x 35 in (127 cm x 56 cm x 89 cm) (H x W x D)
Shipping Weight	Approximately 260 lbs (118 kg)
Operating Ranges	32° - 120°F (0°-49°C)
Scale Accuracy	J2788 Certified (+/- 0.5 oz)(+/- 15 grams)
Recovery Accuracy	J2788 Certified >95% at 70 to 75° F (21 to 24°C) within 30 minutes
Hoses	9 ft (2.74 m)
Compressor	3/8HP – 0.8kW, pressure protected, balanced start-up, oiled, hermetically sealed
Condenser Fan	Industrial-duty
Vacuum Pump	6 CFM, single stage, 29.9 InHg
Charging Cylinder	30 lb (13.6 kg) DOT
Recycling Filter-Drier	Spin-on type
Warranty	2 Years – parts & labor

## General

### Bay Banner

ArcticPRO® A/C Service P/N 035-81393-00

Deluxe, 84 in. x 33.5 in. banner, poly-reinforced white vinyl, rope, grommets, and wind slits.



### Dust Cover,

ArcticPRO® RHS®980/RHS®980C

P/N 026-80483-00

Made from reinforced fabric, dark blue with RTI logo.



### RHS®980 Set-Up & Training

DVD w/Storage Case P/N 561-80101-00



## A/C Adapters, Couplers, Cylinders, Fittings and Hoses

### R134a Tank Adapter, P/N 023-80147-00

Special fitting to be screwed onto 1/2 in. ACME threads, so that R134a Low Side Field Service Coupler can be attached to a virgin or recycle tank.



### Vacuum Pump Adapter P/N 360-80844-00

R134a Vacuum Pump Adapter, 1/4 in. Flare female x 1/2 in. ACME male.



### Red High Side Service Coupler P/N 023-80095-00

Fits all machines and gauge sets requiring R134a High Side connection. 1/2 in. ACME threads connect to hose ends.



### Blue Low Side Service Coupler P/N 023-80096-00

Fits all machines and gauge sets requiring R134a Low Side connections. 1/2 in. ACME threads connect to hose ends.



### R134a DOT Cylinder, 30 lb. P/N 360-80301-00

Standard "re-usable" DOT container. 1/2 in. ACME connections. Recommend Electronic Weight Scale as additional accessory to avoid over-filling.



### R134a DOT Cylinder, 30 lb., with OFP P/N 360-80332-00

Over-fill protection float switch installed. Compatible with RTI equipment or others that use Brad Harrison type electrical connector.



### Heat Blanket P/N 026-80092-00

Specially designed by RTI for adding heat to refrigerant containers to increase speed of transfer (pre-charging) into RTI machines or charging from refrigerant containers. 100–120 Volt. Thermostatically controlled with thermal fuse for safety. Fits 30 lb. and 50 lb. containers. Recommended in cold climates.

### R134a, Red Hose, 9 ft., P/N 028-80035-04 11 ft., P/N 028-80035-02 15 ft., P/N 028-80035-05 20 ft., P/N 028-80035-03

RTI Low Permeability red high side service hose. Works on all R134a machines and gauge sets. (1/2 in. ACME x 14mm)



### R134a, Blue Hose, 9 ft., P/N 028-80036-04 11 ft., P/N 028-80036-02 15 ft., P/N 028-80036-05 20 ft., P/N 028-80036-03

RTI Low Permeability blue low side service hose. Works on all R134a machines and gauge sets. (1/2 in. ACME x 14 mm)



## A/C Equipment Maintenance

### Filter Kit P/N 360-82133-00

Filter Kit for RHS®980 Machines



### Filter, RRC750/760 P/N 026-80044-00

Filter for thousands of RRC750/RRC760 Refrigerant Management Centers in the field.



### Filter, ID1000 and ID1000 PRO P/N 026-80128-00

Filter used in the ID1000 and ID2000 Refrigerant Identifiers for protection from oil and debris.



### Maintenance Kit P/N 360-82029-00

Maintenance Kit for RHS®780/RHS®730V Machines.



### Filter, High Side 1996–Current Model Machines P/N 026-80069-00

Outlet filter for 1996 through current RTI A/C Models. Change usually recommended at 50 hours of compressor run time (300–500 vehicles). See Recycling Machine Operation Manual.



### In-line Filter, 10 Pack P/N 360-81618-00

In-line filter replacement element, 10 pack. In-line filtration is standard on most RTI A/C machines.



### Maintenance Kit P/N 360-82031-00

Maintenance Kit for RHS®730E Machines.



### Filter, Low Side 1996–Current Model Machines P/N 026-80077-00

Inlet filter for 1996–current RTI A/C Models. Change usually recommended at 25 hours of compressor run time (150–250 vehicles). See Recycling Machine Operation Manual.



### O-Ring Repair Set, R134a Service Couplers P/N 360-80672-00

This kit will replace the O-rings in RTI as well as most other R134a service couplers. Several of each size are included.



### Maintenance Kit P/N 360-82032-00

Maintenance Kit for RHS®680.



## ACF-3000 Air Conditioning Flush System

Cleans individual A/C system components by removing debris and dirt that can damage A/C systems. An A/C flush is a critical process that can prevent repeat repairs to an A/C system after a catastrophic failure. The ACF-3000 utilizes a closed-loop process to circulate flushing fluid through components to filter out contamination.

It is simple to operate, uses shop air and can be operated unattended during the flush cycle. The ACF-3000 is designed to connect individually to the inlet and outlet ports of an A/C system component. A universal adapter kit is included for hook-up to a wide variety of connections.



**ACF-3000\***

**Super Flush Pro, 4 – 1-gal. Containers**

\* Adapter kit included.

**P/N 405-80001-00**

**P/N 011-80026-00**

## ID1000 Pro Refrigerant Identifier System

- Quickly and accurately determines refrigerant purity
- Identifies EPA SNAP approved blend refrigerants, “Blend ID”
- Easily samples refrigerant—one hose hook-up
- Built in printer for an “On-The-Spot Receipt”

ID1000 Pro Refrigerant Identifier System identifies percentages of R12, R134a, R22, Hydrocarbons like propane and butane, and air. Accurate infrared identification technology.

Preprogrammed Alpha-Numeric LCD Readout walks you through its simple operation. A self-calibrating system ensures at least 98% accuracy—the best in the business!

Add a rechargeable battery pack and charger to make your identifier portable and eliminate the need to attach to the vehicle battery.

*ID1000 Pro*

**ID1000 Pro  
ID1000**

**(without built-in printer)  
Battery & Charger**

**Replacement Paper Roll  
P/N 028-80136-00**

**P/N 460-80253-00**

**P/N 460-80253-01  
P/N 360-82157-00**



*Optional Battery  
and Charger*

## Elite UV Leak Detection Kit

LED style cordless light with rechargeable battery design allows for easy leak detection. Premium 2 oz. refillable injector makes adding dye to any A/C system easy! No proprietary cartridges necessary. Simply attach to low side service port and with a couple quick turns, 1/4 oz. is dispensed. All of our A/C dyes are R12 and R134a compatible.

- LED UV Light—cordless
- 2 oz. Refillable injector
- 4 oz. Super bright dye
- Fast charger
- “Dye Installed” decals
- UV enhancing glasses
- Storage case

**Elite UV Leak Detection P/N 360-81813-00**



## Complete A/C Consumables Starter Kit

- Over 890 pieces – 5 boxes (P/N 026-80223-00)
- Ford O-rings and springs (P/N 026-80223-01)
- GM O-rings and metal gaskets (P/N 026-80223-02)
- Chrysler metal gaskets (P/N 026-80223-03)
- Import O-rings (P/N 026-80223-04)
- Retrofit fittings, ports and caps and 8 different types of orifice tubes (P/N 026-80223-05)

**Complete A/C  
Consumable Starter Kit**

**P/N 026-80223-00**



*GM O-rings & gaskets*



*Ford O-rings & springs*



*Chrysler metal gaskets*



*Orifice tubes*



*Import O-rings*

## Total Store A/C Starter Package

- Small tool box – containing small tools necessary to work on A/C systems, including Ford spring tools, valve core removal tools, port de-burring tools, duct thermometer, orifice tube removal tool set, o-ring removal tool, Bridgeport sockets, various adapters for hoses, and more.
- System guard protectors for completed service jobs
- Retrofit clutch/pressure switch
- Retrofit adapters
- Complete consumables kit including O-rings, orifice tubes, caps, gaskets, etc.
- A/C refrigerant capacity chart
- Compressor oil replacement chart
- Flush gun and flushes for nine cars
- Six different types of oils (total of 27 bottles) (see page 10)
- Fin comb
- Condenser cleaning air gun
- Heat gun
- High side adapter kit
- Leak detector – electronic
- Leak detector – UV dye with 5 dye cartridges
- Safety goggles and gloves (2 pair each)

**Total Store A/C  
Starter Package P/N 360-81398-00**



## A/C Supplies

### System Guard Port Seals, 125 Vehicle Pack P/N 026-80221-00

These tamper-proof port seals work like heat shrink tubing. Once work has been completed simply slide a seal over the cap and shrink it into place with a heat gun. Guard against unqualified repairs and/or DIY additives to the A/C system. Each seal has a unique serial number for your security.



### Sealant Detector Cartridges, 25 Pack P/N 026-80309-00

25 pack of replacement cartridges for P/N 360-81733-00 Sealant Detector Kit.



### RTI Guard, Strap Style, 50 Pack, P/N 026-80355-00

These tamper-proof straps prevent access to system ports and lock on just like a tie strap. Along with guarding your work against unqualified repairs, they bring customers back to your shop. Each strap has a unique serial number for your added security.



## A/C Tools

### A/C Tool Kit P/N 360-81429-00

A/C Tool Kit includes, Low Side Service Coupler, Duct Thermometer, Universal Valve Core Tool, Orifice Tube Service Kit, R134a Valve Core Removal Tool, R12 Port Thread Repair Tool, R134a Service Port Reamer Tool, Ford Spring Lock Set (4), O-Ring Removal Tool, Bridgeport Sockets, Universal Gaskets & Depressors, R134a Field Service Coupler O-Rings and Tank Adapters



### Sealant "Quick Detect" Kit P/N 360-81733-00

The RTI Sealant Detector Kit includes everything you need to make a foolproof determination of the presence of leak sealant. It quickly lets you know if an A/C system sealant has been added to the A/C system. Once you know that sealant is not present you can safely recover the refrigerant and start repairs. Don't risk contamination of your A/C equipment. Kit includes re-usable A/C system couplers and enough replacement cartridges to sample 10 vehicles. 25 pack of replacement cartridges, P/N 026-80309-00.



### Orifice Tube Removal Tool, Deluxe Set P/N 026-80210-00

Corroded-in-place orifice tubes are easily removed with this handy removal set.



### Valve Core Tool, 8 mm / 10 mm P/N 026-80292-00

Those stubborn 8 mm and 10 mm valve cores on those late model vehicles don't stand a chance with this very heavy-duty tool. Its 5-1/4 in. length combined with its 3/4 in. knurled diameter body lets this tool get the job done. The use of a 3/8 in. wrench on the hex of either adds plenty of leverage.



### R12 Service Port Thread Chaser P/N 026-80214-00

When hooking up to an R12 fitting or when retrofitting, get clean straight threads with this handy tool.



### R134a Port Debur Reamer P/N 026-80215-00

Use whenever you hook-up to avoid cutting the O-ring in your couplers; just one quick turn!



### Thermometer, Duct P/N 026-80047-00

This handy 1 in. dial duct thermometer ranges from -40° to +160°F.



### Oil Drain Bottle, 8 oz. P/N 026-80207-00

Our 8 oz. oil drain assembly can be used with many popular machines that are equipped with a 1/4 in. flare oil drain port. The precision needle valve lets the operator control the flow. The bottle graduations allow for an accurate measurement of removed oil.



### Oil Injection Bottle, 8 oz., 1/4 in. Flare, P/N 026-80208-00

Our 8 oz. oil injection assembly can be used with many popular machines that are equipped with a 1/4 in. flare oil injection port. The precision needle valve and the graduations on the bottle allow for accurate oil dispensing.



### Oil Injection Bottle, 12 oz., 1/2 ACME, P/N 026-80116-02

Oil injection assembly for R12 or R134a works on most any application. 1/4 flare female on one side and 1/4 flare male on the other. Adapter included to convert to 1/2 ACME for R134a applications.

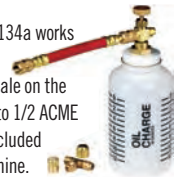


### In-line Oil Charge Kit, R12 or R134a, 12 oz., P/N 360-80773-00

In-line oil injection assembly for R12 works on most any application. 1/4 flare female on one side and 1/4 flare male on the other. Attaches in-line on either a machine or a gauge set.

### In-line Oil Charge Kit, R12 or R134a, 12 oz. P/N 360-80774-00

Oil injection assembly for R12 or R134a works on most any application. 1/4 flare female on one side and 1/4 flare male on the other. Adapter included to convert to 1/2 ACME for R134a applications. Bracket included for mounting the bottle to the machine.



### Condenser Blow Gun P/N 026-80212-00

This extra length blow gun makes quick work of cleaning dirt and debris from the condenser and radiator.



## A/C Vacuum Pumps, Manifold Gauges, Scales

### Vacuum Pump, 7 CFM P/N 360-81488-00

- R12, R134a or other refrigerants
- Simple, reliable operation
- 7 CFM for extra rapid dehydration
- 29.9 InHg, 300 micron vacuum level
- Sturdy housing is built to last

The RTI 7 CFM Vacuum Pump is designed for fast, efficient operation. Its large, powerful composition pulls an air conditioning system into a deep vacuum in record time. It removes air and moisture rapidly, assuring thorough dehydration before you recharge. An industrial strength motor ensures long-lasting reliability and operation. It can also be integrated into many RTI refrigerant management centers.



### Vacuum Pump, 2.5 CFM P/N 026-80363-00

This newly designed vacuum pump provides all the high performance features without the big price tag. The light-weight sleek new style makes this pump great for most any application. The rotary vane design utilizes "twin port" technology for fast, deep vacuum levels. Both the R12 and R134a ports are designed for quick changeover between refrigerants.



### Electronic Weight Scale P/N 026-80348-00

Electronic Weight Scale with 175 lb. (80 kg) capacity.



### R134a Gauge Manifold Set (Aluminum) P/N 360-81900-00

Red, Yellow and Blue 6 ft. Hose Set. Aluminum block design with sight glass. Anti-flutter design gauges. Professional-style service couplers.



### R134a Gauge Manifold Set (Brass) P/N 360-81490-00

Red, Yellow & Blue 6 ft. Hose Set. Brass block design with sight glass. Anti-flutter design gauges. Professional-style service couplers.

### R12 Gauge Manifold Set P/N 360-81489-00

Red, Yellow & Blue 6 ft. Hose Set. Brass block design with shut-off valves.

## A/C Equipment Maintenance (continued)

### R12 Red System Hose, 11 ft., P/N 360-80471-00

R12 red hose assembly. 11 ft. with 1/4 in. turn valve assembly. This hose works on most machines as well as gauge manifold sets. 1/4 in. Flare Female x 1/4 in. Flare Male, as comes on machines.



### R12 Blue System Hose, 11 ft., P/N 360-80472-00

R12 blue hose assembly. 11 ft. with 1/4 in. turn valve assembly. This hose works on most machines as well as gauge manifold sets. 1/4 in. Flare Female x 1/4 in. Flare Male, as comes on machines.



### Vacuum Pump Oil 1 qt., P/N 011-80004-00 Case, P/N 360-80012-00

Our premium vacuum pump oil is a unique blend which will add years of life to most any vacuum pump when changed at regular intervals. Purchase in 12 qt. case.



### Replacement Hose Gaskets, 10 Pack R12, P/N 360-82096-00; R134a, P/N 360-82097-00

Replacement Hose and Gaskets for R12 or R134a machines.

## A/C Leak Detection

### A/C Leak Detection Kit P/N 026-80179-00

Our popular A/C ultra-violet leak detection kit is compatible with R134a and R12. One 8 oz. cartridge of universal dye, 12 volt UV light, R12 and R134a adapters, dye injection gun are all included in a molded case.



### LD-1 Leak Detector, Premium Electronic P/N 026-80320-00

High performance, highly sensitive and accurate. Battery powered. Recommended as a reliable and accurate way to check for leaks. Meets new SAE Standards.



- Detects all halogenated refrigerants
- Pinpoints leaks as small as 0.1 oz./year
- Tri-colored visual leak level indicator
- Variable frequency audible alarm
- Easy-to-use keypad controls
- Ergonomic, cushion grip handle
- Auto reset, battery test and mute functions
- Molded custom carry case

### Sensor, Leak Detectors, 3 Pack P/N 026-80094-02

Replacement sensor tips (3 Pack) for Leak Detector, P/N 026-80203-00 or P/N 026-80204-00.



### Glasses, Dye Enhancing P/N 026-80179-04

Dye-enhancing UV glasses.



### Gun, UV Kit P/N 026-80179-03

Gun only for UV Kit, P/N 026-80179-00.



### UV Dye Cartridge, 8 oz., 32 Applications P/N 026-80179-01

This cartridge contains 8 oz. of universal A/C dye. Enough concentrated dye for 32 vehicles. Fits many popular styles of dye injection guns.



### Refillable Dye/Oil Injector P/N 360-81752-00

This professional aluminum 2 oz. capacity injector can be used to easily inject dye or oil thru the low side port of a pressurized A/C system. The 1/4 oz. graduations provide accurate dispensing. One 4 oz. bottle of universal A/C dye included. Works on R12, as well as R134a systems.



### R12 Dye Adapter P/N 026-80179-05

This universal adapter works with many types of A/C injection tools. R134a low side to 1/4 in. Flare Female. Comes with UV Kit, P/N 026-80179-00.



### R134a, Dye Adapter P/N 026-80179-07

This universal adapter attaches to many types of cartridges. R134a low side coupler. Included with UV Kit, P/N 360-81813-00.



### A/C Dye, 1/4 oz., 12 pack P/N 011-80027-00

Open the convenient 1/4 oz. bottle and add it to the A/C system anytime it is open. Next time you see that vehicle, your system leak diagnosis will only take minutes. All of our A/C Dyes are compatible with R12 and R134a systems. These super bright dyes will make your leak detection fast and easy.



### A/C Dye, 1 oz., 6 pack P/N 011-80028-00

All of our A/C Dyes are compatible with R12 and R134a systems. These super bright dyes will make your leak detection fast and easy.



### A/C Dye, 4 oz., 4 pack P/N 011-80029-00

Getting dye in this economical 4 oz. bottle saves time and money. Graduations on the bottle ensure accurate dispensing.



### Oil Dye, 1 oz., 6 pack P/N 011-80031-00

RTI's new "All Oil" dye is compatible with engine oil, transmission fluid and power steering fluid. These super bright dyes will make your leak detection fast and easy.



### Universal Dye Cartridge, used w/360-82478-00 P/N 026-80552-00



## A/C Oil and Flush Items

### Fluid Flush, 1 qt. P/N 011-80023-00

Specially formulated to remove lubricants and particulates from R12 and R134a A/C systems. Used in conjunction with the RTI Flush Gun.



### Flush Gun Assembly P/N 360-81334-00

A quick, economical tool for flushing contaminants from A/C systems. Uses shop air to thoroughly clean with RTI Flush Fluid.



### Super Flush Pro, Four 1-gal. Containers P/N 011-80026-00

- Designed to flush all vehicles and ideal for use with major closed-looped flush machines
- Meets all A/C compressor (new and rebuilt) manufacturer requirements
- For most effective use, see ACF-3000 A/C Flush Machine on page 6



### PAG Oil Replacement Cartridge, used w/360-82469-00 P/N 026-80550-00

### POE Oil Replacement Cartridge, used w/360-82469-00 P/N 026-80551-00



- |                             |                         |
|-----------------------------|-------------------------|
| <b>A/C Oil Kit</b>          | <b>P/N 360-81336-00</b> |
| <b>PAG Oil 46, 8 oz.</b>    | <b>P/N 011-80015-00</b> |
| <b>PAG Oil 100, 8 oz.</b>   | <b>P/N 011-80016-00</b> |
| <b>PAG Oil 150, 8 oz.</b>   | <b>P/N 011-80017-00</b> |
| <b>Oil Mineral</b>          |                         |
| <b>SUS-500, 1 qt.</b>       | <b>P/N 011 80018 00</b> |
| <b>Oil Ford YA-9, 1 qt.</b> | <b>P/N 011-80019-00</b> |
| <b>Oil Ester, 1 qt.</b>     | <b>P/N 011-80021-00</b> |
- Six types of Oil (27 bottles)
  - PAG 46, 100, and 150 (8 bottles, 8 oz. each)
  - Mineral, YA-9 Ford, and Ester (1 qt. each)

# NitroPRO® NTF-515 Nitrogen Tire Inflation Systems

Introducing the NitroPRO® NTF-515, the most versatile nitrogen tire inflation machine available in the market today!

RTI's new NitroPRO® NTF-515 is the professional's choice for nitrogen tire inflation with increased nitrogen tire fill capability and variable nitrogen purity level flexibility. Major features include:

**Application flexibility** - dual setting provides either 95% or 98% N2 purity at the outlet with the twist of a wrist

**Superior productivity** – automatic operation, up to six tire simultaneous fill

**Super-fast service times** – about 7 minutes for four 225/60R15 tires simultaneously

**Use anywhere** – battery powered fill controller provides superior unit portability

**Fill versatility** – programmable control head easily accommodates variable pressure settings

**Service counter** – records both single and multi-fill services

**Single tire operation** (deflate, vacuum & fill or simply fill) – perfect for new tire installation & top-offs

**5.1 CFM large-bore membrane** - high throughput and efficiency

**Includes 5 Years Maintenance Supplies & POP Marketing Kit - \$800 Value, FREE!**

## Rechargeable Battery

- Provides power for full day of use
- Standard 110V outlet recharge
- Conveniently located recharge connection port
- Power recharge cord included



## N2 Purity Selector

- Decide what's best for you ...95% or 98% purity level
- Superior market adaptability
- Simple operation



## Fill Gun

- Digital display w/ variable units of measure display
- Superb accuracy, within +/- 1%
- Illuminated display w/ auto shut-off
- Durable rubber coated housing



## Large Bore Membrane

- Fully aged, no degradation over time
- Less susceptible to contamination

## Rear Wheel Assemblies

- Cushioned, non-inflatable
- Permanently lubed bearing
- No maintenance required



## Control Panel

- Inlet air pressure gauge
- N2 reservoir pressure gauge
- Tire fill digital controls
- N2 reservoir purity test port

## Inflation Processor

- Battery powered for complete portability
- Fully automatic operation
- Automatic system purge after service
- Easy programming

## Filter System

- H2O Separator – 99.9% efficiency
- Oil Separator – 99.9% efficiency
- Carbon Filter Bed – separates & purges random gases
- Fine Particulate Filter – traps fine particulates & residual moisture

## Single Tire Inflation Hose

- Utilizes vacuum/inflate process
- Handy for “top-offs”
- Coiled hose with fill gun

## Multiple Tire Inflation Hose

- Standard configuration – (4) hose tire fill
- Utilizes deflate/inflate/deflate/inflate process
- Accommodates majority of N2 tire fill applications

## Hose Storage

- Side mount hose storage – neatly bundles 4-hose configuration
- Keeps hoses separated & out of the way



**TechALERT**  
COMPATIBLE

Learn more at  
[www.gonitropro.com](http://www.gonitropro.com)

# NitroPRO® Nitrogen Tire Inflation Systems

Nitrogen tire inflation: Improves fuel mileage and increases tire performance for your customers. Increases your bottom line.

Studies of nitrogen tire filling show that car owners can improve gas mileage by up to 10% and extend tire life by as much as 25%! Tire filling with 95% minimum purity nitrogen helps keep tires at optimum inflation levels, which in turn delivers fuel savings and improved tread wear compared to under-inflated tires. And properly inflated tires improve safety and handling as well. Nitrogen tire inflation is one of the fastest growing segments in the auto service industry as more car owners seek ways to save money and improve gas mileage. RTI pioneered portable Nitrogen tire inflation equipment with its introduction of NitroPRO® machines known throughout the industry for superb quality and superior performance. Now NitroPRO® equipment is available with more features than ever before!

## Easy, Convenient & Profitable

NitroPRO® generates on-demand nitrogen using shop air and features an on-board storage reservoir. The storage reservoir contains a triple filtration system for system purity and membrane longevity and utilizes automatic shutoff for less air compressor use.

## Fast Service Speed

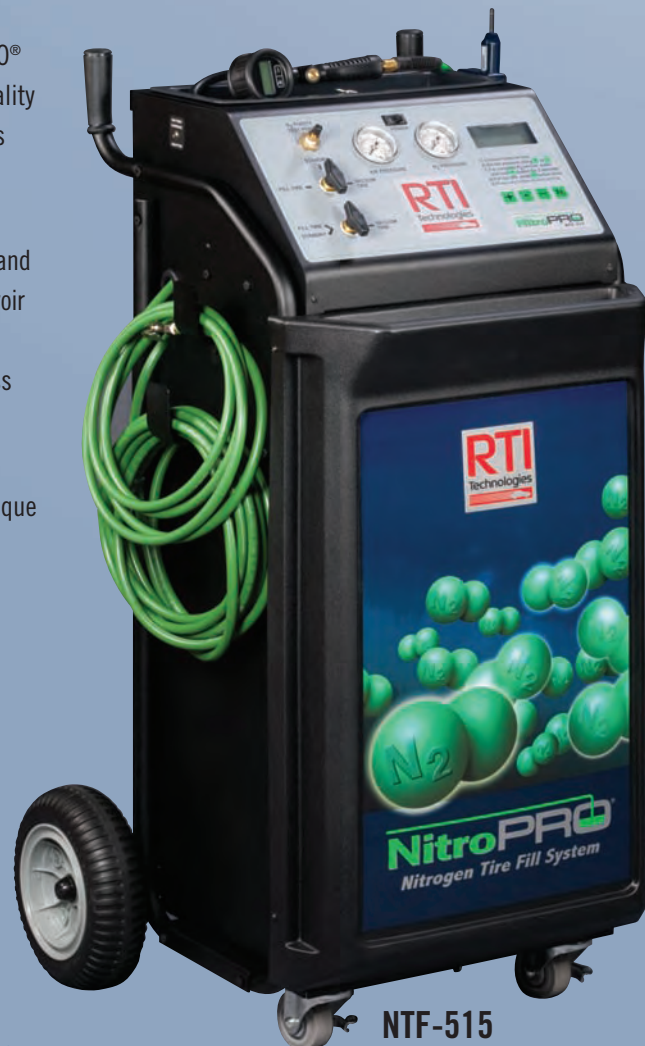
All NitroPRO® nitrogen generation stations feature a unique single tire inflation/deflation process to quickly exhaust air and moisture from the tire and inflate with nitrogen. Multi-tire NitroPRO® generators utilize an exclusive algorithm for the tire deflation/inflation process.

## Easy N2 Service Validation

Every NitroPRO® unit comes standard with a NitroPRO® hand-held nitrogen purity tester to provide a quick and accurate nitrogen purity assessment for tires or reservoir. It is very convenient to use, extremely accurate and is highly reliable.

## NitroPRO® Membrane Technology

RTI's NitroPRO® membrane performs consistently over a wide temperature range and will not deteriorate in cool garage environments. All NitroPRO® polymer membranes are fully aged and stabilized before factory shipment to maximize and maintain NitroPRO®'s high nitrogen purity and generation performance for many years to come. NitroPRO® is a large-bore membrane. That means the membrane fiber is less susceptible to contamination.



**NTF-515**  
**NitroPRO® Automatic Multiple Tire Inflation System**  
**w/ Purity Selector**  
(5.1 SCFM capacity membrane)

P/N 455-80018-00

**NTF-515**



Every **NitroPRO**® NTF-515 unit is shipped with a NitroPRO® Marketing Kit that includes samples of POP materials designed to help sell NitroPRO® service!



**NitroPRO® Marketing Kit**

**P/N 561-80087-00**

**Specifications**

Air Supply	100 to 150 psi (6.9 to 10.3 bar) required
Electrical	Rechargeable Battery operates auto-fill. 110-120VAC 50/60 HZ power required for re-charge. Includes low battery charge indicator
Controls	NTF-230: 1 ball valve. NTF-515: 2 ball valves. Both include process labeling, microprocessor w/ 4 push buttons & electronic display
Vacuum	Venturi generator (17 InHg max)
Service Time/vehicle (average tire size*)	NTF-515: 5 minutes average NTF-230: 7 minutes average
Tires per hour**	NTF-230: 21 tires NTF-515: 47 tires
Storage Tank Capacity	NTF-230: 30 gal (113.5 ltr) NTF-515, NTF-15 Plus: 15 gal (56.8 ltr) NTF-60 Plus: 60 gal (227 ltr)
Nitrogen Purity Level (from membrane)	NTF-230: 95% pre-set at factory NTF-515: Adjustable, 95% or 98%

Hose	All models: coiled green air hose (18 ft working length) (5.5 m) NTF-515 also includes: green 1/4 inch air hose: Two 24 ft (7.3 m), Two 12 ft (3.7 m) working length hoses
Dimensions	NTF-515: 49 in x 20 in x 22 in (125 cm x 51cm x 56 cm) (H x W x D) NTF-230: 46-1/2 in X 24 in X 24 in (117 cm X 61cm X 61 cm) (H X W X D)
Shipping Weight	NTF-515: 238 lbs. (108 kg) NTF-230: 204 lbs. (93 kg)
Accuracy	Both Models: +/- 0.3psi (2.1 kPa) (0.02 bar)
Display Increments	Both Models: 1 psi
Warranty	Membrane: 5 Years parts/1 Year labor Basic Unit: 1 Year parts & labor Wear Items: 90 Days parts

\* Average tire size for data: 225/60/R15. \*\* Maximum tires per hour, including tank refill.

**NitroPRO**  
Nitrogen Tire Inflation Systems

## Nitrogen Tire Accessories

**RTI NitroPRO N2 Purity Tester, P/N 355-80022-00**

Included with NTF-515 machines. Convenient and reliable hand-held device. Quickly and accurately tests nitrogen tank purity and accurately tests tire purity. Provides your customers with a professional display, validating your service.



**N2 Plastic Valve Stem Caps, 200 Pack, P/N 355-80026-00  
500 Pack, P/N 355-80156-00  
1,000 Pack, P/N 355-80157-00**

High quality plastic valve stem caps with N2 marking provides a reminder that tires are filled with nitrogen. NTF machines. Sample of twenty included with NTF machines.



**Tire Deflators P/N 028-80365-00**

Included with NTF-515 machines. Simply screw onto valve stem and deflate tires to atmosphere.



**Pressure Regulator P/N 355-80070-00**

For shops with compressor air pressure output above 150 psi. Reduces pressure to under 150 psi (within NTF operating range).



**Digital Fill Gun P/N 023-80395-00**

Digital display w/variable units of measure, superb accuracy +/- 1%, automatic display shut-off, durable rubber coated hosing.



**Filter Kit 2.1 P/N 355-80025-00**

Filter replacement kit for NTF-230 models. Replacement required annually or as indicated on the NTF filter change indicator.



**Filter Kit 5.1 P/N 355-80149-00**

Filter replacement kit for NTF-515, 15 Plus and 60 Plus models. Annual replacement required or as indicated by filter minder.



**Carbon Bed Replacement Kit P/N 355-80150-00**

Carbon bed replacement kit for NTF-515, 15 Plus and 60 Plus models. Replacement required every two years.



**Quick Connect Kit P/N 375-80023-00**

Quick coupler connects your ELF-1 EVAP Leak Finder to any NTF unit to operate the ELF-1 using Nitrogen instead of air.



**Hose Reel P/N 355-80049-00**

50 ft. of "Nitrogen Green" 3/8 in. I.D. nitrogen hose with adjustable hose stop



**NitroPRO Point-of-Purchase Flyers (quantity 1,000) P/N 355-80044-00**

Educate your customers with the NitroPro Point-of-Purchase flyers.



**RTI NitroPRO Bay Banner Nitrogen Service P/N 035-81535-00**

Deluxe banner, poly-reinforced white vinyl, rope, grommets, and wind slits. Measures 84 in. x 32 in.



**Dually-Fill Hose Option P/N 355-80123-00**

Readily adapts machine to (6) hose fill capability. Available as accessory kit. Simple & convenient connection.



**Battery Charger P/N 026-80513-00**

NTF-515/230 Models, 110 Volt



**NitroPRO**  
ACCESSORIES & PARTS

# NitroPRO® NTF-230 Nitrogen Tire Inflation Systems

The perfect machine to begin your simultaneous 4-tire nitrogen inflation experience.

RTI's simple NitroPRO® membrane technology requires no moving parts to generate nitrogen. The new, NitroPRO® NTF-230 from RTI outperforms less reliable PSA technology with faster 4-tire inflation time performance, high nitrogen purity capability, and superior durability and equipment longevity. Plus, it's smaller equipment footprint means more room on your shop floor. And the robust construction of NitroPRO's membrane technology means no delicate moving parts or fragile carbon towers and simpler maintenance.



The NitroPRO® NTF-230 is a compact design for better portability and more usable space in your shop.



## Specifications

Air Supply	100 to 150 psi (6.9 to 10.3 bar) required
Electrical	Rechargeable battery operates auto-fill, includes low battery charge indicator. 110-120VAC 50/60 HZ power required for re-charge. Includes microprocessor w/ 4 push buttons & electronic display.
Service Time/vehicle (average tire size*)	5.0 minutes @ 95% purity
Tires per hour**	21 tires
Storage Tank Capacity	30 gal (113.65 ltr)
Nitrogen Purity Level (from membrane)	Factory set at 95% or 98%

Hoses	Green 1/4 inch air hose: Two 24 ft (7.3 m), Two 12 ft (3.7 m) working length hoses
Dimensions	46-1/2 in X 24 in X 24 in (117 cm X 61cm X 61 cm) (H X W X D)
Shipping Weight	204 lbs. (93 kg)
Controller Fill Accuracy	+/- 0.3psi (2.1 kPa) (0.02 bar)
Display Increments	1 psi
Warranty	Membrane: 5 Years/1 Year labor Basic Unit: 1 Year parts & labor
Part Number	455-80024-00

\* Tire size for inflation data: 205/65R15. \*\* Maximum tires per hour, including tank refill.

# NitroPRO® NTO-200 Nitrogen Tire Inflation Systems

Perfect for single tire conversion and nitrogen top-off service.

The NitroPRO® NTO-200 is simple to use and simple to maintain. The quick connect adaptor easily hooks to your shop's existing compressed air system, so no modifications need to be made, and the lightweight and highly portable tool will top off 4 tires in less than 10 minutes. An easy-to-read digital display makes operation simple and the self-contained membrane cartridge is easily removed by simply unscrewing the cartridge locking ring.



## Specifications

Estimated Lifetime Grip*	50,000 Tire Fills
Estimated Lifetime Cartridge	12,000 Tire Fills
Estimated Lifetime Cartridge*	55,000 Tire Top-Offs @ 120 PSI 40,000 Tire Top-Offs @ 125 PSI 30,000 Tire Top-Offs @ 130 PSI 19,000 Tire Top-Offs @ 135 PSI
Nitrogen Capacity**	1.8 CFM @ 68°F (Average) (at 145 psi inlet pressure)
N2 Purity at Cartridge Outlet	95%, Average
Inlet Air Quality	ISO 8573-1: 2001 Class 3.-3 <i>It is not allowed to feed liquid/aerosol condensate, water or oil into NTO-200.</i>

Inlet Pressure	72-160 psi
Max Tire Pressure***	50% of Inlet Pressure
Temperature	-4°F to 122°F
Overall Weight	2.6 lbs.
Cartridge Weight	1.3 lbs.
Overall Dimensions	25.2 in X 9.1 in X 3.5 in.
Cartridge Dimensions	17.7 in X 3.5 in X 3.5 in
Certification CE Conforming	(EMC and PED Art.3.3)
Warranty Grip	12 Months, limited*/**
Warranty Cartridge	12 Months, limited*/**
Maintenance	None

## Technical Specs based on 80 psi / 5.5 bar:

\*205/55R16 Tire Size  
\*\*Reference Condition at 14.7 PSI and 68°F  
\*\*\*80 psi / 5.5 bar / 0.55 MPa

Patent Pending Design

## FluidPRO® ATX Automatic Transmission Fluid Exchangers

The most technologically advanced transmission service machines. Fast, automatic and accurate fluid exchange!

RTI's ATX series automatic transmission fluid exchangers offer more benefits to the service organization than any other brand including:

**Easy Operation** - Electronic keypad, logical intuitive command functions

**Superior Productivity** – fully automatic operation, multi-fluid exchange capability, transmission pressure diagnostics

**Extremely Fast Process Times** – high volume fill pump, precision fluid measurement to minimize technician input

**Professional Service** – digital weight scale technology for precise fluid flow measurement & accurate fluid exchange. Proportional motor control maximizes exchange percentage.

**Application Flexibility** – comprehensive color-coded adapter set with reference guide

**Peace-of-Mind** – patented bypass circuit for vehicle protection if power is interrupted



ATX-3 + Boost



ATX-2 + Boost/ATX-3 + Boost

- Includes suction booster pump as standard
- Decreases service time on low-flow/temp controlled transmissions



ATX-3 + Boost

- Conveniently located dipstick tube adapter
- Provides dipstick tube service
- Clear tube provides visual of dirty fluid extraction and new fluid insertion



## FluidPRO® Automotive Fluid Exchange Systems

Fluid exchange is fast, easy and profitable with RTI's FluidPRO® Automotive Fluid Exchange Service Equipment. Built to go the distance, FluidPRO® Systems are the perfect addition to any automotive garage.

When its time to replace vehicle fluids, the most efficient, competent and professional way to do it is with equipment specifically designed for the task – RTI Technologies FluidPRO® Fluid Exchange Service Equipment.

RTI FluidPRO® equipment is designed to quickly and competently extract used, contaminated fluids out of automatic transmissions, vehicle cooling systems, vehicle braking systems, vehicle power steering systems, manual transmissions and drive axles and replace them with clean and fresh replacements. FluidPRO® systems perform exchanges fast and efficiently and best of all, technicians love the “no clean-up mess!”

Every piece of FluidPRO® equipment provides quick and complete fluid exchange. In most instances, every operation will yield in excess of a 90% fluid exchange in a single pass! When these services are performed manually, a 55-65% fluid exchange is the norm depending upon circumstances. So with RTI FluidPRO® service equipment, the term service competency is the hallmark of our product line. Its no wonder, when service shops need the best, they specify FluidPRO® from RTI Tech!

EQUIPMENT TYPE	MODEL	TYPICAL SERVICE TIME
Auto Trans	ATX	2-5 minutes
Coolant	MCX	1-3 minutes
Coolant	VCX II	5-15 minutes
Power Steering	PSX	5-15 minutes
Brake System	BFX	5-10 minutes
Differential	DFX	10-15 minutes

**ATX-2 + Boost  
Automatic Transmission Fluid Exchanger** P/N 400-80008-00  
Includes High Output Suction Pump

**ATX-2 + Boost/PS  
Combo Power Steering/Transmission Unit** P/N 415-80008-00  
PSX-2 mounted on rear of ATX-2 + Boost machine

**ATX-3 + Boost  
Automatic Transmission Fluid Exchanger** P/N 400-80009-00  
Includes Dipstick Service mode

**ATX Adapter Set Complete** P/N 300-80048-00  
Included as STD w/ATX equipment

**Deluxe ATX Adapter Set Complete** P/N 300-80049-00  
Includes many foreign car adapters

See pages 25 & 26 for additional ATX adapters.



**ATX-2 + Boost**

## FluidPRO® PSX-3 Power Steering Fluid Exchanger

Power steering fluid exchange service is now faster and easier than ever with this handy and reliable machine!

**Easy-to-Use** – insert dual hose wand into reservoir, power up unit and cycle steering wheel lock to lock until waste fluid matches color of new fluid. Exchange is complete.

**Enhanced Productivity** – high capacity waste pump provides enhanced cold temperature fluid extraction.

**Extremely Fast Process Times** – simultaneous dual pump process, PSX-3 uses two positive displacement diaphragm pumps, no priming is required.

**Professional Service** – clear dual process hose provides excellent new/used fluid visual. Professional compact design saves valuable shop space and assists in selling OEM recommended service.

**Application Flexibility** – fast and easy changeover between multiple power steering fluid types.



### Specifications

Electrical	12 VDC - 4 Amp
Dimensions	45 in x 22 in x 21 in (113 cm x 55 cm x 53 cm) (H x W x D)
Shipping Weight	48 lb (22 kg)
Operating Range	32° to 122°F (0° to 50°C)
New Fluid Pump	Diaphragm type, 1 gal (3.79 liter) per minute
Used Fluid Pump	Diaphragm type, 1 gal (3.79 liter) per minute

Hoses	3/8 in (0.95 cm) clear PVC
New Tank	1 gal (3.79 liter) clear PVC
Used Tank	1 gal (3.79 liter) clear PVC
Process Time	5 to 15 minutes average
Fluid Types	Multiple power steering fluid capability
Casters	360° swivel; locking
Warranty	1 Year parts & labor

### Cart

- (4) Heavy-duty swivel casters
- Storage shelf

### Control Wand

- Dual process hoses – waste & new fluids

**PSX-3 Power Steering Fluid Exchanger w/ Control Wand & Cart**

**P/N 415-80012-00**

**PSX-3A Power Steering Fluid Exchanger w/ Control Wand, Set-Up for ATX-2 + Boost Installation, Cart Not Included**

**P/N 415-80015-00**

## FluidPRO® DFX-1 Differential Fluid Exchanger

Differential and manual transmission fluid exchange service is now simple and mess-free with RTI's DFX-1 Fluid Exchanger.

Makes a traditionally bothersome and messy service easy and convenient and increases productivity in any automotive service facility.

**Easy-to-Use** – insert hose end into differential & flip switch to begin extraction or fill process

**Enhanced Productivity** – provides thorough fluid exchange. High-mobility cart includes 4 HD swivel casters.

**Rapid Service** – powerful pump (120 Volt) quickly moves heavy gear oil

**Professional Application** – provides clean operation, valved hose ends prevent fluid spill, small footprint cart w/ storage shelf saves valuable shop space



### Specifications

Electrical	120 VAC - 0.7 Amp
Pump	Qty (2) Diaphragm, 1.4 gal (5.3 liter) per minute
Temperature Range	32° to 130°F (0° to 55°C)
Process Time	10 to 15 minutes average
Hoses	3/8 in (0.95 cm) clear PVC; 9.5 ft (3 m) long
Fluid Tank Capacities	1 gal (5.3 liter) Used and new
Fluid Types	All gear oils including synthetic (75-90W through 85-140W)
Dimensions	43 in x 22 in x 21 in (109 cm x 56 cm x 53 cm) (H x W x D)
Shipping Weight	54 lb (25 kg)
Warranty	1 Year parts & labor

### Cart

- (4) Heavy-duty swivel casters
- Storage shelf

### Suction/Fill Tube

- Valved hose ends
- Dual process hoses – waste & new fluids

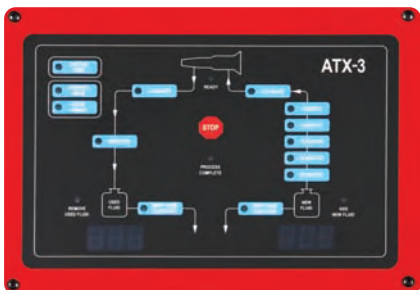


**DFX-1 Differential Fluid Exchanger**

**P/N 445-80001-00**

# FluidPRO® ATX Automatic Transmission Fluid Exchangers

The most technologically advanced transmission service machines. Fast, automatic and accurate fluid exchange!



ATX-3 + Boost Control Panel Shown

## ATX-2 + Boost/ATX-3 + Boost Control Panels

- Electronic diode illuminated keypad, intuitive operation
- Simple automatic fluid level adjustment. Plus or minus 1/2 quart adjustment keys
- Used & new fluid sight glasses
- Transmission diagnostic pressure gauge
- Fluid flow direction indicator, verifies correct hook-up
- Push button drain function



## Color-Coded Adapter/Coupler Set

- Included w/ every ATX unit
- Stored on top of unit for EZ access
- Includes application guide



## ATX-2 + Boost/PS Combo

- ATX-2 + Boost w/ mounted PSX-3
- For simultaneous transmission & power steering service
- See PSX-3 for unit specifications

## Specifications

Electrical	12 VDC - 15 Amp (ATX-3 + Boost: 12 VDC - 17 Amp)
Dimensions	45 in x 28 in x 26.5 in (112 cm x 70 cm x 67 cm) (H x W x D)
Shipping Weight	ATX-2 + Boost: 242 lbs. (110 kg) ATX-3 + Boost: 244 lbs. (111 kg)
Operating Range	32° to 122°F (0° to 50°C)
Pump	Positive displacement gear pump, 4 quarts (3.8 liters) per minute / includes diaphragm pump, 7.2 quarts (6.84 liters) per min. Diaphragm pump increases fluid suction rate in low-flow/temperature controlled transmission in both ATX-2 + Boost & ATX-3 + Boost units.
Process Time	2 to 5 minutes average full exchange. ATX-3 + Boost also offers (Dipstick Mode) 8 to 14 minutes average full exchange
Scale Accuracy	±0.03% over usable range
Controls	Microprocessor with digital keypad & light emitting diodes
Fluid Tanks	26 quarts (24.6 liters) each for both new & used fluids
Fluid Types	Multiple fluid capability
Hoses	10 ft (3 m) black & red (exchange); 8 ft (2.5 m) black (empty used tank) / ATX-3 + Boost also includes 5 ft (1.5 m) clear, attached to 8 ft (2.5 m) black hose for dipstick mode
Adapter Set	Cooler line connection. Valved couplers for minimum spill. Standard adapters for Ford, GM, Chrysler, & Universal (most Asian imports).
Warranty	1 Year parts & labor



**TechALERT**  
COMPATIBLE

ATX-3 models only

# FluidPRO® VCX Vacuum Coolant Exchangers

The easiest coolant/antifreeze exchange in the industry with dramatic visual appeal to help sell the service.

When expert high-demand coolant flush service is required, RTI's VCX Vacuum Coolant Exchanger is the natural choice.

**Extremely Fast Service Cycles** – vacuum extraction & pressure fill process provides rapid process times, perfect for quick lube operations

**Easy Service to Sell** – customers can visually see dirty fluid being removed and replaced with clean new coolant

**Simple Hook-Up & Operation** – shop air operation, insert cone adapter, select process and go!

**Many Makes Compatibility** – simplicity and versatility of service hose is adaptable to most makes and models without modification

**Robust Design & Construction** – high strength fiberglass composite coolant cylinders, rugged chassis & cushioned, no-inflate wheels

**Good Exchange Efficiency** – can remove up to 60% of used coolant in single pass



#### Control Panel

- Vacuum gauge
- Color-coded function valve positioning
- Easy coolant selection/changeover
- Integrated factory pre-set pressure regulator

#### Cone Adapter

- Versatile & simple connection
- Insert cone in radiator spout or overflow tank

#### Rear Wheels

- Cushioned, non-inflatable
- Permanently lubed bearing
- No maintenance required

#### Front Wheels

- Caster style for easy maneuverability
- Locking w/ debris shield
- No maintenance required



#### Coolant Cylinder Assemblies

- Large capacity – 20 quarts each
- No-leak end cap design, machined aluminum w/ pressure O-rings
- Pressure relief valve – waste fluid cylinder



#### Specifications

Dimensions	VCX-1: 63 in x 28 in x 22.5 in (160 cm x 71 cm x 57 cm) (H x W x D)
	VCX-4: 63 in x 28 in x 29 in (160 cm x 71 cm x 74 cm) (H x W x D)
Shipping Weight	VCX-1: 166 lb (75 kg) / VCX II-4: 200 lb (91 kg)
Power Source	Shop air, 55 to 110 psi (3.8 to 7.6 bar)
Controls	Ball valves w/ color-match system
Pump	Venturi vacuum generator; 28 InHg (0.95 bar) maximum
Process Time	5 to 15 minutes average
Coolant Cylinders	20 quart (18.9 liter) each
Fluid Types	Any coolant type (Fast easy changeover)
Hoses	Clear, wire reinforced 10 ft (3 m)
Adapter Set	2 Cone plugs; 8 in (20 cm) hose adapter
Warranty	1 Year parts & labor

**VCX-1 Vacuum Coolant Exchanger,  
Two Cylinder, (1) Waste, (1) New**

**P/N 470-80019-00**

**VCX-4 Vacuum Coolant Exchanger,  
Four Cylinder (1) Waste, (3) New**

**P/N 470-80020-00**

# FluidPRO® MCX Multi-Coolant System Fluid Exchangers

One machine for the quickest, most complete coolant exchange—all coolant types!



**MCX-2**



#### Four Caster Mobility

MCX Series now features a four-caster set-up as standard for enhanced mobility



#### Clear Service Hose

MCX Series now features a clear service hose section (approx. 6" long) for visual of clean and waste fluid applications



#### Control Panel

- Vacuum & pressure gauges
- Easy-to-use process control switches



#### Coolant Tank Connectors

- Drip proof
- Quick disconnect style



#### Fluid Level Indicator

- Fluid level visible - both new & waste tanks
- Waste tank float switch provides automatic pump shut-off when tank is empty



#### MCX Accessory Kit

- (2) universal adapter hoses
- (4) universal step adapters w/ shut-off valves
- (1) overflow tank wand w/ shut-off valve
- Miscellaneous fittings/clamps

#### MCX-1 Multi-Coolant Exchanger MCX-2 Multi-Coolant Exchanger

Adds system pressure test feature & "hot car" radiator cap pressure release to MCX-1

P/N 470-80008-00  
P/N 470-80009-00

#### MCX-2F Multi-Coolant Exchanger

Adds flush bypass loop & flow indicator to MCX-2

P/N 470-80010-00

#### MCX-2HD Multi-Coolant Exchanger

Adds larger capacity fill tanks to MCX-2 plus larger step adapters

P/N 470-80013-00

#### MCX Accessory Kit, Hoses, Step Adapters, Hose Clamps, Wand

P/N 370-80019-00

#### MCX-HD Adapter Set

All MCX Series Units; 2 in, 2-1/4 in, 2-1/2 in

P/N 370-80123-00

See page 28 for additional MCX adapters and accessories.



Rear of MCX-2

#### Tanks

- All MCX units except HD
  - (1) 15 gallon capacity round waste tank
  - (2) 7.5 gallon capacity rectangular fill tanks included
- MCX-2HD
  - (1) 15 gallon capacity waste tank
  - (2) 15 gallon capacity fill tanks included

#### Specifications

Electrical	12 VDC - 15 Amp
Dimensions	45 in x 38 in x 22.5 in (114 cm x 97 cm x 57 cm) (H x W x D)
Shipping Weight	170 lb (77 kg)
Operating Range	32° to 122°F (0° to 50°C)
Hoses	3/8 in (9.5 mm); quick connect/disconnect (brass; chrome sleeve; silicone sealed)
Step Adapters	Universal; 2 sets; 1-1/4 in to 1-3/4 in range (3.2 cm to 4.4 cm) diameter (MCX-2HD contains additional step adapters)
Adapter Hoses	Universal; 2 hoses, 1-1/4 in to 1-3/8 in (3.2 cm to 3.5 cm) and 1-1/2 in to 1-3/4 in. (3.8 cm to 4.4 cm) diameter (MCX-2HD contains additional adapter hoses)

Fill Pump	Diaphragm Type: 2 gal (7.9 liter) per minute
Drain Pump	Impeller Type: 2 gal (7.9 liter) per minute
Pressure Switch	6 to 12 psi (0.4 to 0.8 bar); protects vehicle cooling systems from high pressure
New Coolant Tank (2)	7.5 gal (28 liter); integrated output tube w/ debris filter screen and check valve; MCX-2HD contains two 15 gal (57 liter) tanks
Waste Coolant Tank	15 gal (57 liter); integrated input/output tube; w/ automatic empty fluid level sensor
Process Time	Less than 3 minutes average full exchange
Coolant Exchange	92 to 98% single pass, average exchange for most vehicles
Warranty	1 Year parts & labor



# FluidPRO® DCS-1 Diesel Cleaning System

Diesel engine popularity is on the upswing and RTI's DCS-1 is the technician's choice for providing diesel cleaning service.

The DCS-1 is easy to operate and provides a more effective and professional method of diesel fuel system cleaning compared to today's conventional processes.

**Superior Functionality** – air pressure regulator & gauge included to for precise control. Quick disconnect fittings provided at all connections for fast easy operation.

**Simple Operation** – unscrew cap, fill w/ cleaning solution, hook-up connections - cleaner is gravity fed (air pressure assistance sometimes required) into fuel system during engine operation

**High Productivity** - operational controls provide precise fluid & air management, eliminates solution waste & shortens operation cycle time

**Professional-Use-Equipment** – smart looking rugged cabinet manufactured from impact resistant composite, encapsulates all machine components for greater protection in shop environments, conveys professional image & operational competency, validates service

## Controls

- Power switch
- Timer w/ indicator light & audible warning
- Air pressure regulator
- Air pressure gauge
- Air pressure release valve
- Fuel/air line quick disconnect
- Automatic fluid level warning



## Cabinet

- Compact, lightweight & chemical resistant composite cabinet
- Integrated molded-in carrying handle & feet – keeps unit upright during fill
- Large fill cap/opening – spill proof fill
- Translucent, high-strength composite reservoir – visual fluid check
- Hanger loop - sturdy, versatile

## Specifications

Cleaning fluid capacity	1 qt, 8 oz (1.0 liter)
Hoses	Includes two (2) 9 ft color coded supply and return hoses; one (1) fuel tank bypass hose
Pressure Source	Compressed air or Nitrogen
Inlet Pressure Range	0 psi to 50 psi maximum
Pressure Control	0 psi to 50 psi manual regulator
Electrical Power Source	3.0 VDC, requires two (2) AA batteries for power; batteries included
Alarm type	Red light indicator, audible buzzer
Dimensions	19 in x 13 in x 5 in (48 cm x 33 cm x 13 cm) (H x W x D)
Shipping Weight	23 lbs. (10 kg)
Cabinet	Impact and corrosion resistant composite
Compatible cleaning fluids	Diesel fuel system cleaner
Adapters/Fittings	Domestic/Import automobile basic adapter kit included.
Warranty	1 Year parts & labor

**DCS-1  
Diesel Cleaning System**

**P/N 410-80002-00**

# FluidPRO® BFX-2 Brake Flush System

Make brake flush service fast, simple and profitable with RTI's BFX-2. Automated push/pull process completely flushes the entire brake system and provides superior service.

Routine interval brake fluid exchanges are now being recommended by a growing number of OEM's and MAP (Motorist Assurance Program) and the efficient way to provide this service today is with the BFX-2

**Efficient & Simple** – 3 step process... extracts old brake fluid from master cylinder; fills new fluid into master cylinder; automatically performs OEM specified single sequential wheel end bleeding procedure all in less than 10 minutes



### Wheel End Hose Connectors

- Color-coded, eliminates hook-up confusion

### New Brake Fluid

- BFX-2 easily adapts to many types of brake fluid bottles
- May use RTI-supplied fluid tank

### Waste Brake Fluid

- Sealable and easy to remove waste bottle
- Eliminates mess during waste fluid disposal

**BFX-2 Brake Flush System** P/N 425-80005-00

**BFX Complete Adapter Kit** P/N 325-80001-00

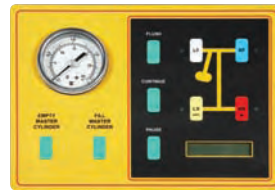
See page 27 for additional BFX adapters and accessories.

**Easy Service to Sell** – now specified by OEM's & MAP to maintain safe vehicle operation

**User-Friendly Operation** – universal master cylinder adapters w/ quick reference guide for easy hook-up & includes pistol wand for convenient & accurate fill. Easy wheel end bleeder hose hook-up and storage

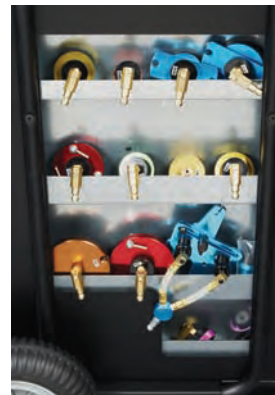
**Effective and Professional** – unique push/pull process ensures optimal fluid exchange, eliminates system contamination, purges harmful air simultaneously. Isolates each wheel end & performs OEM recommended bleeding sequences. Compatible with both ABS & non-ABS systems

**Durable Design & Construction** - rugged cabinet w/ special powder coated steel to resist brake fluid corrosiveness



### Control Panel

- Logical controls, intuitive layout & function
- Pressure gauge assists in brake system diagnosis
- Automatic machine shut-off w/ warning light: new fluid tank is empty, used tank is full



### Adapters/Connectors

- Universal adapters for variety of master cylinders

### Specifications

Electrical	12 VDC - 10 Amp
Pumps	Vacuum pump: diaphragm 1.6 gal (6 liter) per minute Fill pump: diaphragm 1.4 gal (5.3 liter) per minute
Fluid Tank Capacities	5 gal (19 liter) Used, 1 gal (3.8 liter) New
Fluid Types	DOT 3 & DOT 4 brake fluid
Drain Hose	Black EPDM 1/4 in (0.6 cm), 12 ft (3.7 m) long
Vacuum Hoses	Black EPDM 3/16 in (0.5 cm) with 90° rubber connectors, 20 ft (6 m) rear (Qty: 2) and 12 ft (3.7 m) front (Qty: 2)
Fill Hose	Black EPDM 1/4 in (0.6 cm), 12 ft (3.7 m) long
Adapter Set	Contains universal adapters for master cylinders
Dimensions	49 in x 20 in x 22 in 125 cm x 41 cm x 56 cm (H x W x D)
Shipping Weight	194 lb (88 kg) with adapters
Warranty	1 Year parts & labor

# FluidPRO® EV-1 Exhaust Ventilation System

Add safety and professionalism to your facility with the EV-1 Exhaust Ventilation System.

The EV-1 is highly portable and practical. It is designed to efficiently and quickly extract harmful gases out of any shop.

**Simple Operation** – spring loaded column for easy height adjustment, durable locking casters for excellent mobility, includes dual exhaust adapter (does not include hoses & nozzles for dual exhaust, kit required)

**Enhanced Shop Environment** – provides safer & healthier work environment, 110V 3/4 HP motor for high-flow positive pressure ventilation



## Specifications

Dimensions	40 in x 22 in x 22 in (102 cm x 56 cm x 56 cm) (H x W x D)
Total Weight	73 lb (33 kg)
Motor	110 VAC (0.75 HP)
Hose	40 ft (12 m) long; 5 in (12.7 cm) diameter
Flow Capacity	270 CFM (460 CMH)
Electrical Outlet	Minimum 6 Amp
A-Weighted Surface Noise Rating	Corrected LpA = 73 dB (A)
Working Temperature	23° to 120°F (-5° to 49°C)
Fuses	Qty (2) 16 Amp time delayed; 0.39 in x 1.49 in (10 mm x 38 mm)
Warranty	1 Year parts & labor

**EV-1  
Exhaust Ventilation System**  
**Dual Exhaust Kit**  
Includes (2) 5.5' length hoses

**P/N 435-80001-00**

**P/N 335-80001-00**

## Transmission Accessories

**ATX Flush Canister,  
In-Line, 14 oz.  
P/N 300-80061-00**

Use this in-line, 14 ounce canister when flushing a sealed transmission. Attaches in-line between the vehicle and machine. Once you add the flush, it is automatically carried into the system with transmission fluid. Will also work with many popular fluid exchange machines.



**ATX Adapter #95  
P/N 000-80080-00**  
GM Saturn Ion 2.2 Liter  
(2003+)



**ATX Adapter  
P/N 300-80126-00**  
Ford 6R transmission

**Quick Disconnect Tool Set  
(Four sizes included:  
3/8 in., 1/2 in.,  
5/8 in., 7/8 in.),  
P/N 026-80361-00**



Unique stainless steel design tool makes quick work of those Jiffy-Tite fittings. Eliminates the need to remove the spring clip. Losing and/or damaging springs is no longer a problem. Hinged to slip over the tube and closes around the tube; slide into and open the spring clip for easy removal of the tube from the fitting. Saves valuable time!

**ATX-2 Bypass Adapter Hose  
P/N 300-80052-00**

The Bypass Adapter Hose is used to connect the cooler lines together while moving the vehicle.

**ATX Adapter #96  
P/N 000-80081-00**  
GM Saturn Ion 2.2 Liter  
(2003+)vehicle.



**ATX Adapter #93  
P/N 000-80082-00**

Ford F250 & F350 (2005+)



**ATX Adapter #47  
P/N 000-80085-00**  
Saab 93 Sport, 2003-2008



# FluidPRO® ELF-1 EVAP Leak Finder

The latest advancement in EVAP Leak Detection. Superior ability to find a wider variety of automotive system leaks.

The safest way on the planet to find leaks. NO heat, NO smoke, just results in minutes – RTI's ELF-1 Leak Finder. The perfect tool addition for today's automotive service shop!

**Safe & Efficient** – exclusive patented technology, safe, non-flammable, smoke-free process

**NO Heat and NO Smoke!** - Nitrogen NOT Required – use air or nitrogen, meets all OBDII test requirements

**Fast, Simple Operation** –

1. Attach battery clips & air supply
2. Turn on power
3. Press pressure button
4. Find leak

**Most leaks found in less than 3 minutes!**

**Superior Productivity** - high generation rates fill systems quickly & reduces service times, variable pressure settings (1-15 psi w/ safety default), find more types of leaks than other systems

**Application Flexibility** – use on:

- EVAP Systems
- EGR Valves
- Fuel Injector O-Rings
- Throttle Bodies and Gaskets
- Fuel and Oil Leaks
- Vacuum Lines and Fittings

- Intake Manifold
- Head Gaskets
- Valves and Piston Rings
- Vacuum Reservoirs
- HVAC Controls
- Hoses and Heater Cores
- Wind and Water Leaks



## Specifications

Pressure Source	Compressed air or nitrogen
Pressure Range	0 psi to a maximum of 15 psi
Pressure Control	1 psi, 3 psi and 4-15 psi manual range
Leak Detection (per 4 oz.)	Non-toxic, non-contaminating light-enhanced fluid; Approximately 5,000 minutes of continuous operation. Intermittent operation: between 600 - 1,000 tests
Dimensions	9 in x 17 in x 8 in (23 cm x 42 cm x 21 cm) (H x W x D)
Weight	10 lbs. (4.5 kg)
Cabinet	Durable plastic
Power Source	Vehicle Battery - 12 VDC
Refill	Simple refill, no special tools required
Adapters/Fittings	8 assorted rubber plugs for most operations; PCV plugs; (3) Stepped clear hoses; EVAP port adapter
Light Sources	High intensity "white" light
Warranty	1 Year parts

## ELF-1 includes following:

- EVAP Port Fitting
- Fog diffuser – slows down and collects fog to detect wind and whistle leaks
- Rubber adapters – complete set of (8) assorted sizes
- High intensity "white" light
- (1) bottle - 4 oz. of patented fog generating fluid – illuminating properties make leaks easy to find

**ELF-1 EVAP Leak Finder**

**P/N 475-80001-00**

## Brake Flush

### Master Cylinder Adapters, BA01, Chrysler and Others P/N 025-88001-00

Three tab, twist on with expandable O-ring fits most Chrysler models. 2001+ PT Cruiser, 2002+ Grand Voyager, 1996+ Voyager LE, 1994+ Voyager SE / Dodge: Power Ram, Caravan, 2003+ Viper, 2001 Neon / Jeep: 1996+ Wrangler, 1996+ Grand Cherokee, 1999+ Wrangler Sport and others.



### Master Cylinder Adapters, BA02, Ford P/N 025-88002-00

Two tab, twist on with expandable O-ring fits all Ford models with a two tab plastic twist on cap.



### Master Cylinder Adapters, BA03, Ford and Others P/N 025-88003-00

Three tab plastic twist cap. Chrysler: New Yorker, 1999-2002 Crossfire, 1999+ 300 M, 1999+ Grand Voyager, 2001+ Sebring / Dodge: 2001 Neon, 1999+ Stratus / Jeep Cherokee / 1995 Hyundai, 1995+ Sonata, 1995+ Accent, 2001+ Elantra / Mazda 1999+ MPV, 1995+ 121Mitsubishi, 2003 Lancer, Outlander, 1999+ Wagons / Nissan: 1995+ 100SX, 200 SX, 1995+ Maxima, Subaru.



### Master Cylinder Adapters, BA04, GM P/N 025-88004-00

Three tab plastic twist cap. Cadillac, 1996+ Northstar, Eldorado, Seville SLE, STS, 2001+ CTS, 2003+ SRX, XLR / Chevrolet: 1996+ Corvette, 1999+ Blazer, Camaro, 1999+ Transport, 2003+ Tahoe / Mazda: 2001+ MPV, 2001+ Tribute / Pontiac: Firebird all models, Transport.



### Master Cylinder Adapters, BA05, European P/N 025-88005-00

European Vehicles with the threaded master cylinder reservoir. Chrysler: 2003+ Crossfire / Ford: 1995 Cougar, Escort, Focus, Probe, Galaxy, Festiva / Suzuki / Samarai / Toyota: 2003 Corolla.



### Master Cylinder Adapters, BA07, Universal P/N 025-88006-00

All Vehicles with a round master cylinder.



### Master Cylinder Adapters, BA08, Honda and Others P/N 025-88007-00

Honda, Acura reservoirs with round opening. Honda: 1992+ Prelude, 1991+ Legend, All Civics / Isuzu: 1989+ Trooper, 1989+ Monterey, 1989+ Frontera.



### Master Cylinder Adapters, BA09, Honda P/N 025-88008-00

Honda reservoirs with round opening. Honda: 1985+ Accord, 1991 Prelude, 1999 + NSX-T.



### Master Cylinder Adapters, BA10, Toyota and Others P/N 025-88009-00

Toyota reservoirs with small round opening.



### Master Cylinder Adapters, BA11, Toyota and Others P/N 025-88010-00

Toyota reservoirs with large round opening.



### Master Cylinder Adapters, BA013, Nissan Ultima and Xterra P/N 025-88014-00



### Master Cylinder Adapters, BA014, GM and Chrysler P/N 025-88012-00



### Hydraulic Clutch Flushing Adapter Kit P/N 025-88013-00

Adding brake fluid service? You can now add clutch flushing too. Add this kit to your BFX-2 Brake Fluid Exchanger and compliment its capabilities to add clutch flushing.

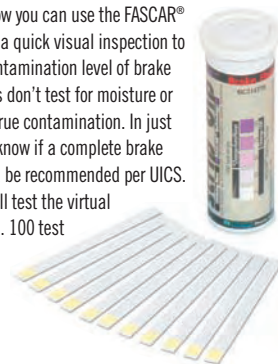


### Complete BFX Adapter Kit P/N 325-80001-00



### "Brake-A-Sure" Brake Fluid Test Strips, P/N 026-80354-00

These handy test strips will help you sell more brake fluid flush services. Now you can use the FASCAR® rating system for a quick visual inspection to determine the contamination level of brake fluid. These strips don't test for moisture or PH, they test for true contamination. In just seconds you will know if a complete brake fluid flush should be recommended per UICS. Each test strip will test the virtual age of brake fluid. 100 test strips per tube.



## Diesel Cleaning

### Accelerator Pedal Depressor Tool P/N 026-80434-00



### Heavy-duty Truck Adapter Kit P/N 310-80045-00

### Hose Assembly 1/4 in., ID 9 ft., Black P/N 310-80041-00

### Hose Assembly 1/4 in., ID 9 ft., Red P/N 310-80042-00

### Hose Assembly 1/4 in., ID 18 in. long, Red P/N 310-80043-00

# Transmission Adapters -

These adapters fit many popular vehicles.

General Motors (Silver)		
J P/N 000-80031-00		J1 P/N 000-80032-00
K P/N 000-80033-00		K1 P/N 000-80034-00
2A P/N 000-80035-00		
29 P/N 000-80071-00		30 P/N 000-80072-00
23 P/N 000-80061-00		24 P/N 000-80062-00
21 P/N 000-80063-00		22 P/N 000-80064-00
25 P/N 000-80065-00		
20 P/N 000-80073-00		
26 P/N 000-80075-00		
27 P/N 000-80059-00		28 P/N 000-80060-00

Chrysler (Gray)		
H P/N 000-80013-00		H1 P/N 000-80014-00
I P/N 000-80015-00		I1 P/N 000-80016-00
F P/N 000-80017-00		F1 P/N 000-80018-00
V P/N 000-80019-00		V1 P/N 000-80020-00
CA P/N 000-80052-00		CA1 P/N 000-80053-00
61 P/N 000-80054-00		62 P/N 000-80055-00
3 P/N 000-80021-00		
4 P/N 000-80022-00		

Asian & Other Types of Vehicles		
8 P/N 000-80036-00		(Requires 2)

Ford (Gold)		
A P/N 000-80001-00		A1 P/N 000-80002-00
B P/N 000-80003-00		B1 P/N 000-80004-00
C P/N 000-80005-00		C1 P/N 000-80006-00
D P/N 000-80007-00		D1 P/N 000-80008-00
E P/N 000-80009-00		E1 P/N 000-80010-00
G P/N 000-80011-00		G1 P/N 000-80012-00
1 P/N 000-80000-00		
9 P/N 000-80070-00		
97 P/N 000-80078-00		98 P/N 000-80079-00
PushLoc P/N 000-80074-00		

European (Black) (Optional Extended Kit)*		
L P/N 000-80023-00		L1 P/N 000-80024-00
M P/N 000-80025-00		M1 P/N 000-80026-00
N P/N 000-80027-00		N1 P/N 000-80028-00
AV P/N 000-80029-00		AV1 P/N 000-80030-00
99 P/N 000-80047-00		
VO P/N 000-80049-00		
35 P/N 000-80051-00		(Requires 2)
31A P/N 000-80050-00		(Requires 2)
37 P/N 000-80056-00		
38 P/N 000-80066-00		39 P/N 000-80067-00
40 P/N 000-80068-00		41 P/N 000-80069-00
43 P/N 000-80076-00		44 P/N 000-80077-00

Miscellaneous Adapters		
	90° Adapter Hose (Top) Straight Adapter Hose (Bottom)	P/N 300-80015-00 P/N 300-80014-00
	Adapter Hose	1/4 in. 5/16 in. 3/8 in. (Qty. 2) 1/2 in.
	Clamp	8 – 12 mm 10 – 16 mm 16 – 25 mm
	PushLoc	3/8 in. 5/16 in.

\* Adapters shown in red are part of the Optional Extended Adapter Kit (P/N 300-80049-00), and are not included in Adapter Set shipped with ATX.

All adapters can also be purchased individually.

For a current list of applications, standard and optional adapters, visit our web site ([www.rtech.com](http://www.rtech.com)) or contact your RTI distributor.

# Why Buy RTI Products?

- **Choices**

An equipment model to fit any need.

- **Performance and Profitability**

Always considered the leader in speed and ease of use. Throughput: more cars serviced per hour means more revenue and profits for your business.

- **Value**

Competitive pricing. You get more for your money.

- **Reliability**

What do you think the "R" in RTI stands for? Each unit is factory tested! We understand that your business depends on quality equipment to perform the services you offer. That's why we build it to perform dependably and to keep your services flowing. With durable construction and components, RTI equipment outlasts and outperforms other equipment brands.

- **Warranty**

Extensive, no-hassle warranty coverage—clearly the leader. The best in the business. "No Lemon" guarantee.

- **In-House Sales Support**

Call 800-468-2321, extension 232 for quick product information.

- **Field Sales Support**

Representatives available to support you with on-site set-up and training.

- **Order Shipment**

Most orders ship within 24 hours.

- **Toll-Free Technical Support**

A large staff of veteran technical service personnel are available to assist you with technical equipment questions and troubleshooting.

- **Service**

Hundreds of service centers available for rare occurrences of needed repairs.

- **Maximum Uptime**

Replacement parts are in RTI stock and available for next day delivery.

- **Trusted Reputation and History**

Widely considered the highest performance, most dependable equipment built—ask any RTI equipment owner or service center.

- **References/Endorsements**

The largest chains in North America (AAMCO/Cottman Transmissions, Firestone, Goodyear, Jiffy Lube, Meineke, Midas, Valvoline Instant Oil Change) and many others choose RTI as their equipment supplier. Hundreds of thousands of technicians have enjoyed the benefits of RTI equipment.

- **Core Competency**

Into our third decade, our concentration and expertise has focused on creating the best automotive service equipment available.

- **Leading Technology**

We share technology with our parent company, Bosch Diagnostics LLC, a leader in high-tech diagnostic service equipment. RTI will always be on the leading edge.

- **Expanding Product Lines**

We offer the widest range of maintenance service equipment and continue to grow our product lines. We invite you to grow with us.

- **Stability**

We are an established, well financed, company with the same experienced core group of managers we have had for many years. We will be there for you.

- **Flexibility**

Our goal is to be one of the most flexible and dynamic companies anywhere. Do you have a special request? Ask us.



*RTI was awarded TechShop's Top 5 Tools Award in both 2005 and 2006 as voted by many of TechShop's 110,000 repair shop subscribers. This award recognizes companies that exhibit exceptional brand strength, technological leadership and product innovation. It is the only true equipment and tool award from shop owners and technicians.*

*Other prestigious awards received by RTI include multiple Undercar Digest Top 10 Tool awards; multiple Professional Tool & Equipment Innovation awards; multiple Motor Top 20 Tools awards and RTI received the Mobile Air Conditioning Society's Award for industry innovation in 2008 with its introduction of the Arctic® PRO RHS®980 A/C Service Machine!*



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[www.rtitech.com](http://www.rtitech.com)

800-468-2321

[www.goarcticpro.com](http://www.goarcticpro.com)

[www.gonitropro.com](http://www.gonitropro.com)

## Coolant

**Fill Tank, 7.5 gal.**  
P/N 370-80007-01

Two (2) 7.5 gallon tanks are included with most MCX series coolant machines. Complete with all the fittings, pick-up tube, filter and check valve.



**Waste Tank, 15 gal.**  
P/N 370-80204-00

This 15 gallon tank is included with MCX series coolant machines. It is complete with fittings and auto shut-off float switch.

**Fill Tank, 15 gal.**  
P/N 370-80184-00

This 15 gallon tank is included with all MCX-2HD models. Comes complete with all fittings, pick-up tube, filter and check valve.

**Coolant Dye, 1 oz.**  
P/N 011-80032-00

These super bright dyes will make your leak detection fast and easy. Use your ultraviolet light to locate the leak.



**MCX Accessory Kit**  
P/N 370-80019-00

This kit comes with MCX series machines.



**MCX Adapter**  
P/N 370-80173-00

Pressurized reservoir adapter for Saturn



**MCX Caster Kit**  
P/N 370-80124-00

This kit can easily be mounted on older model MCX units to make for easier mobility through shop doors.



**Pinch-Off Pliers, 8 in.**  
P/N 070-80046-00

**Pinch-Off Pliers, 10 in.**  
P/N 070-80047-00

**Pinch-Off Pliers, 12 in.**  
P/N 070-80048-00



## Engine Oil System Flush

**Oil System Cleaner Kit**  
P/N 320-80040-00

Includes 12-16 oz. bottles of cleaner and 12 filters.



**Cleaner only,**  
12-16 oz. Bottles  
P/N 320-80041-00

**Filters only, Case of 12**  
P/N 320-80042-00

Used with RTI oil system service equipment, it provides a better oil change. Oil system cleaner fluid loosens and dissolves sludge which is then caught by the 5 micron filter.



## General

**RTI Bay Banners\***

\*Deluxe, 60 in. x 24 in. banner, poly-reinforced white vinyl with red letters, rope, grommets, and wind slits.

**Antifreeze/  
Coolant**  
P/N 035-80968-00



**Automatic  
Transmission**  
P/N 035-80969-00



**Brake Flush  
Service**  
P/N 035-81087-00



**Power Steering**  
P/N 035-80973-00



**Differential Flush  
Service**  
P/N 035-81146-00



**Dust Cover, Small**  
P/N 026-80086-00

Made from deluxe reinforced fabric, red with the RTI logo. For RTI models RHS®780, RRC770, RHS®730, TC670, ATX-2, ESX-2, OSX-2 and PSX-2 units.

**Dust Cover, Large**  
P/N 026-80108-00

Made from deluxe reinforced fabric, red with the RTI logo. For RTI models AC800, AC2860, RHS®2680, TC2770, and MCX units.



**110 Volt to 12 Volt,  
Converter Kit**  
P/N 300-80060-00

