

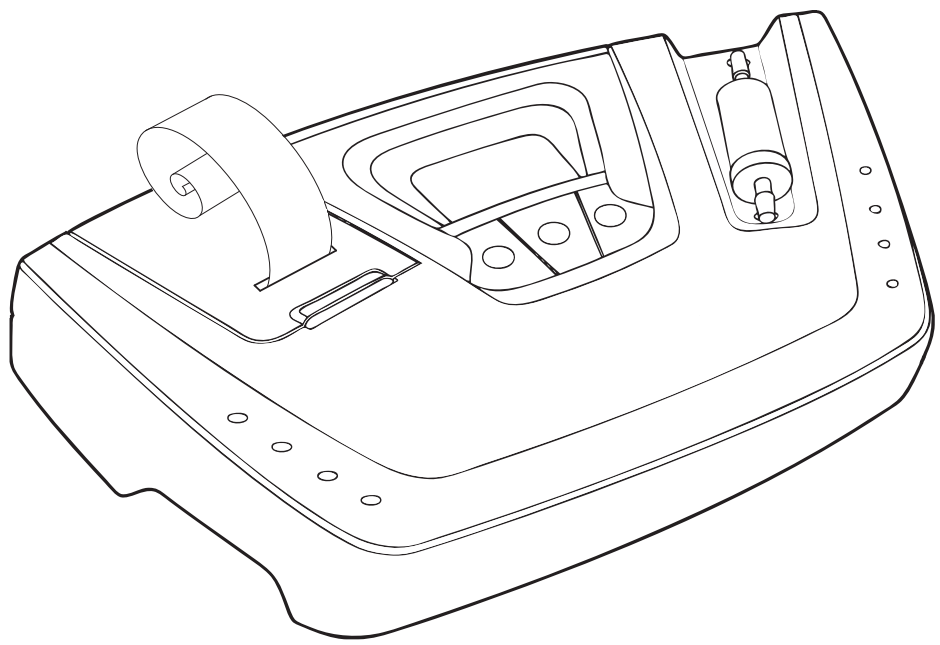


PUR·CHEK™
HVAC Refrigerant Analyzer



Instruction 2100-9001
Operation and Maintenance

Rev. 0 — June 2010



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1 Introduction

1.1 How to Use This Manual

This manual provides important information on how to operate and maintain Bacharach's Pur•Chek™ Pro HVAC Diagnostic Refrigerant Analyzer.

To assure operator safety and proper use of the Pur•Chek™ Pro, please read, understand, and follow the contents of this manual.

1.2 Warnings & Cautions

When used in this manual or as labeled on the Pur•Chek™ Pro, the following hazard symbols and/or associated words are defined as follows:



WARNING: This symbol and/or the use of the word **WARNING** indicates a potential hazard associated with the use of this equipment. It calls attention to a procedure, practice, condition, or the like, which if not correctly performed or adhered to, could result in death or serious injury.



WARNING: This symbol and/or the use of the word **WARNING** indicates a potential hazard from electrical shock. It calls attention to a procedure, practice, condition, or the like, which if not correctly performed or adhered to, could result in death or serious injury.



CAUTION: This symbol and/or the use of the word **CAUTION** indicates a potential hazard associated with the use of this equipment. It calls attention to a procedure, practice, condition, or the like, which if not correctly performed or adhered to, could result in minor or moderate injury.

IMPORTANT: The use of the word **IMPORTANT** in this manual calls attention to a procedure, practice, condition, or the like, which if not correctly performed or adhered to, could result in incorrect performance of or damage to the equipment and may void the warranty.

1.2.1 Analyzer Warnings



Refrigerant Blend Warning: The HVAC industry is continually introducing new refrigerants. Many of these new blends can be profiled using the Pur•Chek™ Pro.



Sample Filter Warning: Replace the sample filter of the instrument AS SOON AS RED SPOTS OR DISCOLORATION BEGIN TO APPEAR ON THE OUTSIDE DIAMETER OF THE WHITE ELEMENT. Failure to properly maintain and replace the sample filter will result in severe damage.



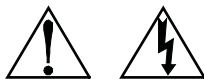
Sample Input Warning: The instrument requires connection of the supplied sample hose to the LOW SIDE OR VAPOR port of refrigerant storage cylinders or air conditioning systems. DO NOT attempt to introduce liquid or samples heavily laden with oil into the low side sampling hose. DO NOT connect the sample hose to the HIGH SIDE or LIQUID port!

Damage caused to the instrument due to the use of the wrong hose on the wrong port will void the warranty.



Battery Charger Warning: When charging the optional battery with the 1000 mA charger, the charger will become warm. If the charger becomes hot, unplug the charger immediately! When charging multiple battery packs, allow the charger to cool between each battery.

1.2.2 General Warnings & Cautions



- Always inspect the sample hose before each use. Replace the hose if it appears cracked, frayed, obstructed or fouled with oil.
- ALWAYS turn the compressor off before connecting the instrument to an air conditioning system.
- Always wear eye and skin protection when working with refrigerants. Escaping refrigerant vapors will present a freezing danger.
- To reduce the risk of electrical shock, do not disassemble the instrument; do not use the instrument in wet or damp areas.
- DO NOT direct refrigerant vapors venting from hoses towards the skin.
- DO NOT disassemble the instrument. There are no serviceable components internal to the instrument and disassembly will void the warranty.
- ALWAYS place the Identifier on a flat and sturdy surface.
- DO NOT utilize any other hose other than those supplied with the instrument. The use of other hose types will introduce errors into the refrigerant analysis and instrument calibration.
- ALWAYS verify that the refrigerant to be tested does not contain or will not emit heavy loads of oil or liquid.
- NEVER admit any sample into the instrument at pressures in excess of 500 psig.
- NEVER obstruct the air intake, sample exhaust or case vent ports of the instrument during use.

1.3 Features and Capabilities

The Pur•Chek™ Pro HVAC Diagnostic Refrigerant Analyzer is the most advanced portable instrument ever manufactured for determining the purity of gaseous refrigerants for the HVAC-R market. Features of the Pur•Chek™ Pro include:

- Unprecedented thirteen (13) infrared (IR) detection system
- Advanced ergonomic design
- Rugged rubberized hand grips
- Large graphic display with on-screen instructions
- Fast 3 minute test time
- Built-in printer for instant analysis report
- Vapor or liquid sampling ability
- Internal, rechargeable battery option for cordless operation in any location
- Hard shell carry/storage case
- Remote software update port

1.4 Pur•Chek™ Pro Model and Contents

Model Name	Part Number	Contents
Pur•Chek™ Pro	2100-8003	Pur•Chek™ Pro 2100-8002 1/4" Flare Vapor Sampling Hose 2100-0008 1/4" Flare Liquid Sampling Assembly 2100-0009 AC Adapter 2100-0004 Printer Paper (1 Roll)..... 2100-0003 Instruction Manual 2100-9001 Spare Sample Hose Filter 2100-0010 All contained in a hard shell storage/carrying case.

1.5 Functional Overview

Contamination of refrigerants either in storage cylinders or air conditioning systems can lead to component corrosion, elevated head pressures and system failures when utilized by unsuspecting technicians. The ability of the technician to determine refrigerant type and purity is severely hampered by the presence of air when attempting to utilize temperature-pressure relations. The development of various substitute refrigerants further complicates the ability of a technician to identify refrigerant purity based upon temperature-pressure relationships. The substitute refrigerant blends can also introduce a flammability hazard to the technician and the ultimate end user of the air conditioning system.

The Bacharach Pur•Chek™ Pro Diagnostic Refrigerant Analyzer provides a fast, easy and accurate means to determine refrigerant purity in refrigerant storage cylinders or directly in air conditioning systems. The instrument utilizes non-dispersive infrared (NDIR) technology to determine the weight concentrations of multiple refrigerant types. Refrigerant purity is displayed on the LCD Screen. The user must determine acceptable levels of purity based on their recovery or use standards.

Sample gas is admitted into the instrument through one of the two supplied sampling hoses and presented to the sensing device. The instrument provides the user with direct percent by weight concentrations. Note that the instrument does not consider air to be a contaminant.

The instrument interfaces with the user with an LCD graphic display, status indicator lamps, push button communication switches and an alarm horn. Alarm indications are provided to alert of instrument fault conditions. Direct percent by weight concentrations of the sample refrigerant is provided on the display as well as user directions and prompts. A built-in printer is provided to print an on-the-spot analysis report.

The Bacharach Pur•Chek™ Pro provides the refrigerant technician with excellent knowledge of refrigerant type and purity as well as protection against refrigerant contamination and potential flammability.

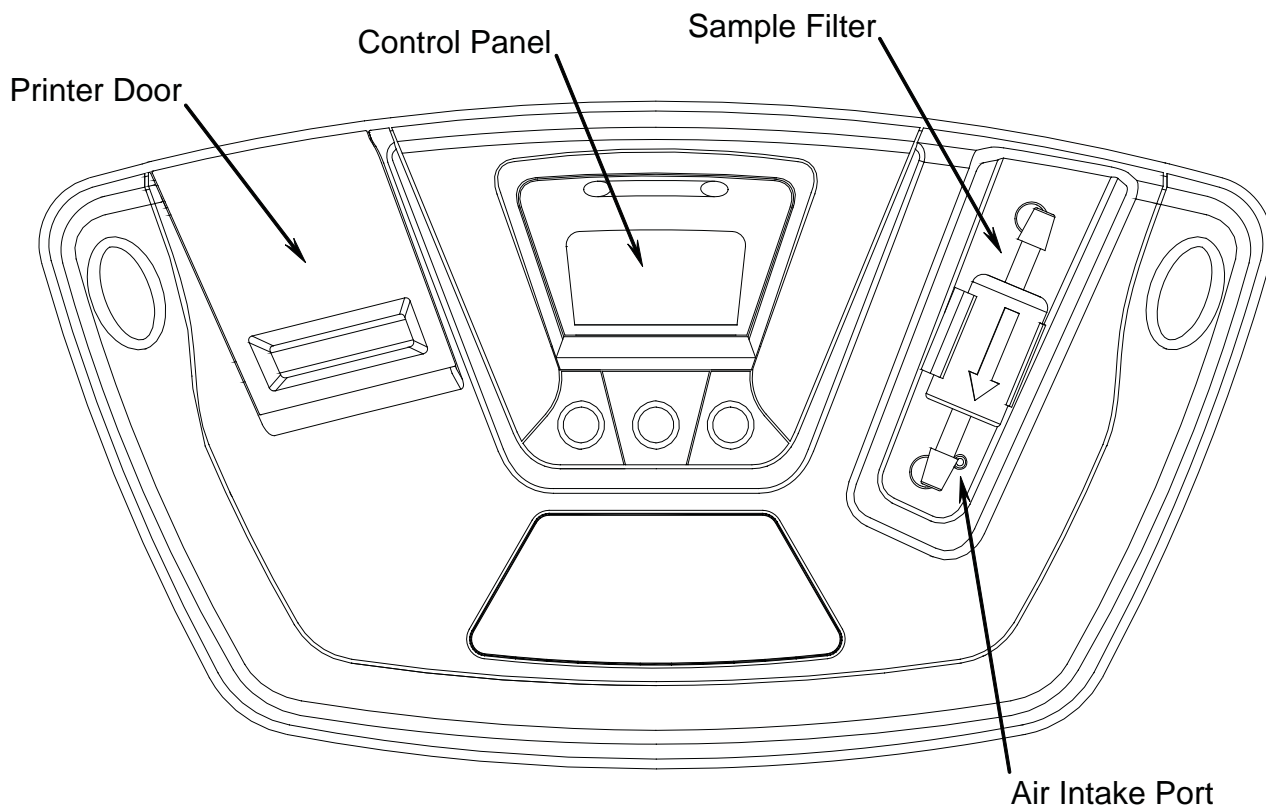
2 Specifications

Sample Parameters	Vapor only, oil-free, 500psig max.
Identified Refrigerants	R408A, R409A, R417A, R421A, R421B, R422A, R422B, R422C, R427A
Identified and Analyzed Refrigerants	R134A, R22, R404A, R407C, R410A
Sensor Technology	Non-Dispersive Infrared (NDIR)
Refrigerant Sample Size	0.3 ounces (8.5 grams) per sample
Power	External Power Supply: 110/220V~, 5/60Hz, 0.6A External Battery Charger: 110/220V~, 50/60Hz, 1.95A DC Supply Requirements: 12 - 15 VDC, 2 Amps min.
Environmental Conditions	Do not expose unit or external components to rain or moisture. Humidity: 0-95% non-condensing Protect unit from physical abuse by keeping the unit in the storage case when not in use.
Operational Temperature	50-113 °F (10-45 °C) 0 - 9,000 feet above sea level

3 Components

3.1 Base Unit

The Pur•Chek™ Pro base unit houses the Graphic Display, Infrared Bench, Electrical Connections, and Printer Module. These components require no maintenance, therefore **there are no serviceable components internal to the instrument, and disassembly will void the warranty.**



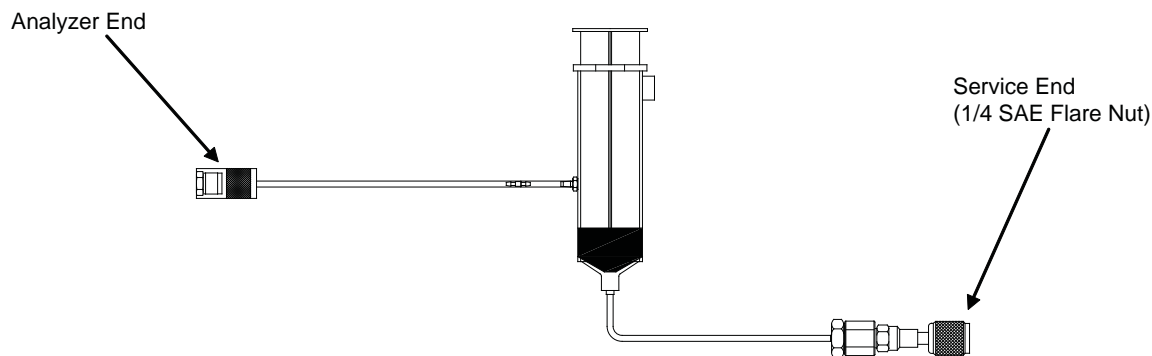
3.2 Low Side Vapor Sample Hose

The 6 foot (1.8 meter) Low Side Vapor Sample Hose is constructed of a polyurethane tube. A brass flow restrictor acts to reduce pressure at the sample connection point and reduce the introduction of harmful oil into the machine. The maximum inlet pressure is 500 psig. The hose is provided with an instrument inlet port mating connector on one end and a 1/4" SAE female flare coupling nut on the service end.



3.3 High Side Liquid Sample Hose

The 6 foot (1.8 meter) High Side Sample Hose is constructed of a polyurethane tube with an oil reservoir. A brass flow restrictor acts to transform Liquid refrigerant to Vapor at the sample connection point while the Oil Trap Syringe collects oil and provides a means of expulsion after the test is complete. The maximum pressure is 500 psig. The hose is provided with magnet for attaching it to the tank and an instrument inlet port mating connector on one end and a 1/4" SAE female flare coupling nut on the service end.

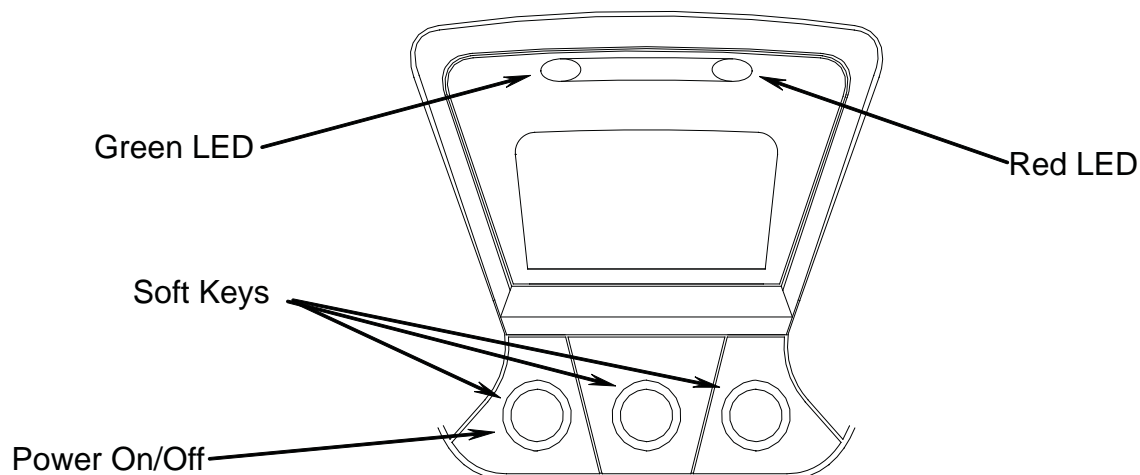


3.4 AC Power Adapter

The Pur•Chek™ Pro is powered via a 110/220 VAC, 50/60 Hz power transformer. This transformer is included with each unit and converts a standard 110/220 VAC, 50/60 Hz wall outlet to 12VDC to power the device. An optional internal and rechargeable battery kit is available separately. Note: Use of any other power source may cause damage to the unit and void the warranty.

3.5 Control Panel

The Control Panel serves as the main user interface. The Control Panel features three soft key buttons that change their function as the instrument changes modes. The current function for each button is displayed by the soft key label at the bottom of the graphic display. Red and Green LED's at the top of the Control Panel are used for visual status indications.

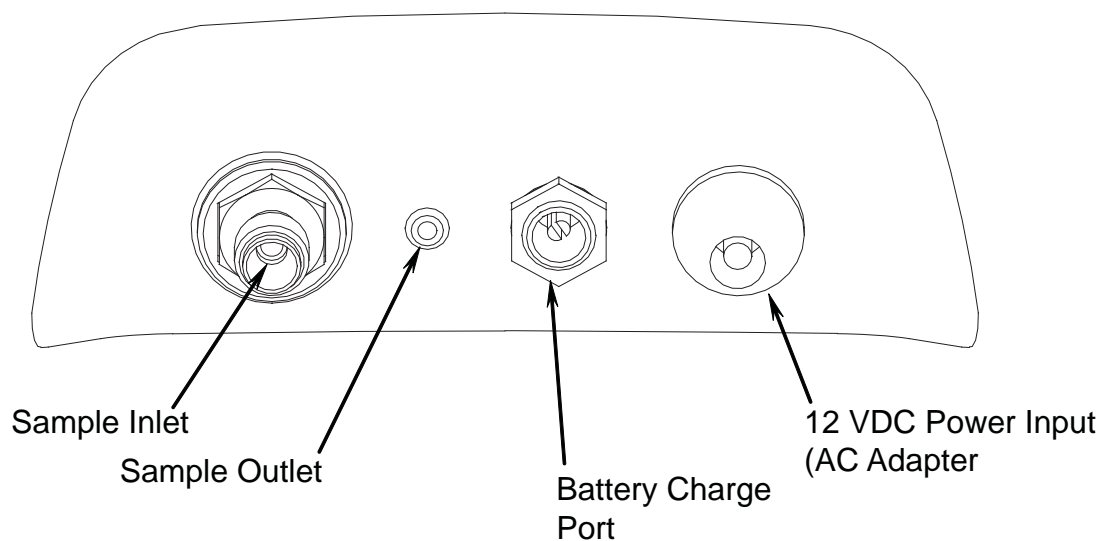


3.6 Back Panel Connections

The connections located on the back panel are illustrated below.

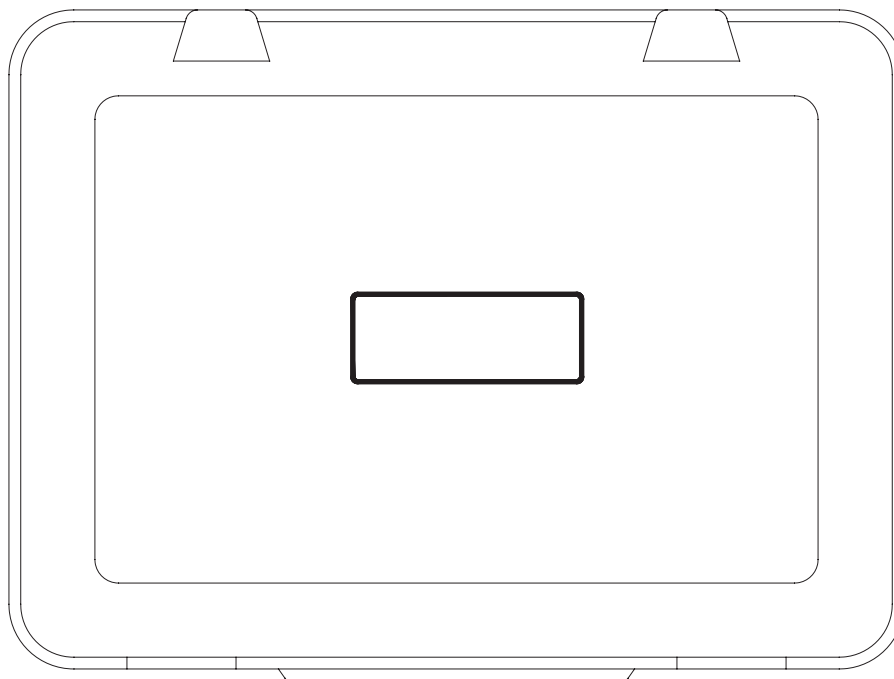


CAUTION: The sample outlet port should never be obstructed. Keep the sample outlet port free and clear at all times. Do not operate near open flame.



3.7 Hard Shell Storage/Carrying Case

The hard shell storage/carrying case is custom fit to the Pur•Chek™ Pro. It provides rugged protection for the instrument as well as convenient storage for all components. The enclosure is general purpose and is not watertight.

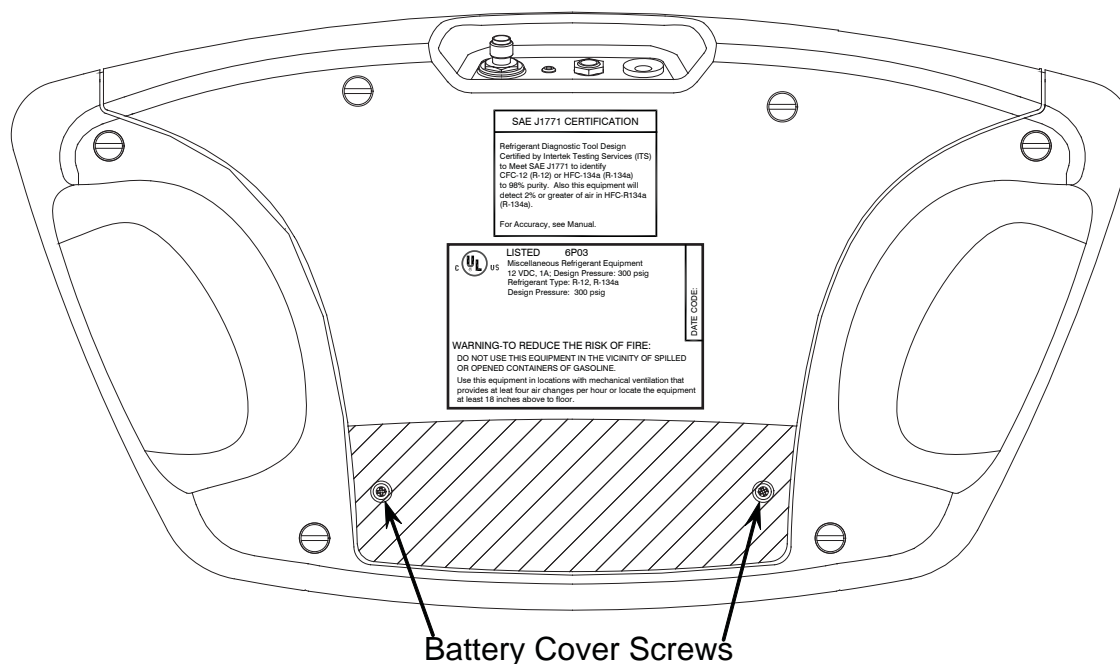


4 Operation

4.1 Battery Installation

The Pur•Chek™ Pro has, as an option, an internal rechargeable battery. If your Pur•Chek™ Pro is equipped with the optional rechargeable battery, you must first install and charge the battery prior to use. NOTE: The Pur•Chek™ Pro can be operated with or without the battery using the supplied AC adapter.

To install the optional battery, remove the battery cover from the back of the unit by unscrewing the two Phillips head screws as shown below.



Inside the Pur•Chek™ Pro battery compartment, locate the male plug on the left side. Slide the nylon strap around the battery. Insert the battery module into the compartment aligning the female connector of the battery module with the male plug in the battery compartment. Replace the cover and snug the screws.

NOTE: Charge the battery for a minimum of 4 hours with the supplied charger prior to first use. The battery cannot be charged with the standard power adapter.

To remove the battery, simply tug gently on the nylon strap, being sure to pull straight up, until the battery is dislodged. The battery may be charged either inside of the unit or independent of the unit.

4.2 Turning On the Unit

Connect the included AC power supply to the 12VDC power input jack on the back of the unit. Plug in the AC power supply to a 110-220 VAC outlet.

NOTE: If the optional battery module is installed and charged, the AC power supply is not required.

Press the left, soft key, power button and the splash screen shown in Figure 1 will appear for approximately three seconds, followed by the warm up screen for three minutes (Figure 2). After the warm up, the calibration screen shown in Figure 3 will appear.



Figure 1.

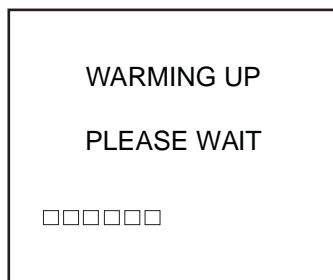


Figure 2.

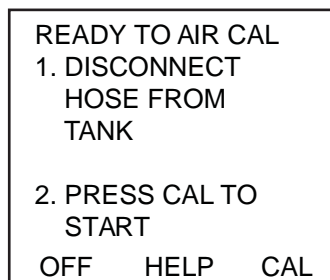


Figure 3.

4.3 Calibration

Each time the Pur•Chek™ Pro begins a new test cycle it must first self-calibrate. The calibration takes 95 seconds (Figure 4) and brings fresh air into the unit via an internal pump. This fresh air purges any excess refrigerant from the unit and ensures accurate test results. Calibration requires that the hose be disconnected from the refrigerant cylinder or air conditioning system. The calibration of the unit will expire after approximately five minutes of inactivity. If this occurs, the screen shown in Figure 5 will be displayed requiring the calibration to be initiated again.

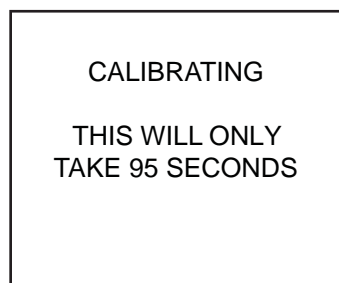


Figure 4.

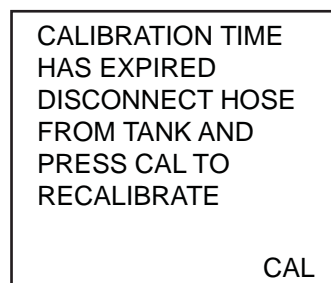


Figure 5.

After calibrating, the unit will display the screen shown in Figure 6. Connect the hose to the tank and press test. The Pur•Chek™ Pro will display the screen shown in Figure 7. If you wish to change any of the factory default settings, refer to Section 5.

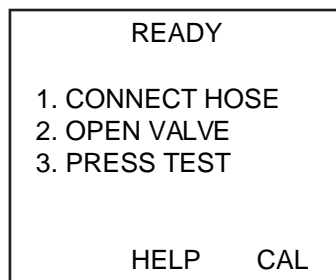


Figure 6.

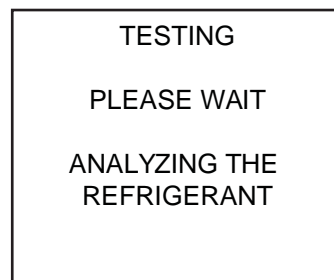


Figure 7.

4.4 Vapor Sampling

Vapor sampling is the most common process used for identifying refrigerants using the Pur•Chek™ Pro. It is a simple process requiring the operator to take these 5 steps:

1. Calibrate the unit as per section 4.3 of this manual.
2. Connect the vapor sampling hose to the instrument, then to the Low Side Vapor port of the system or cylinder.
3. Open the low side valve of the cylinder and press test.
4. Upon completion of the test, or when prompted, close the valve on the cylinder and disconnect the hose from the cylinder.
5. Disconnect the hose from the Pur•Chek™ Pro for storage.

4.5 Liquid Sampling

Liquid sampling is an option that is exclusive to the Pur•Chek™ Pro. It permits the user to flash liquid into vapor for introduction into the analyzer. To use the liquid sampling assembly, follow these seven steps:

1. Calibrate the unit as per section 4.3 of this manual.
2. Inspect the liquid sampling assembly and ensure that the plunger on the oil trap syringe is completely depressed.
3. Connect the appropriate end of the hose to the instrument and the opposite end of the liquid sampling assembly to the High Side Liquid port of the system or cylinder. Affix the oil trap syringe vertically to the tank with the magnet.
4. Open the high side valve of the cylinder. The liquid sample will exit the tank and be flashed to vapor by the hose assembly. As the liquid is flashed, the plunger on the oil trap syringe will begin to rise and the flashed refrigerant sample will travel into the analyzer.
5. Wait for the plunger on the oil trap syringe to expand past the outlet port.
6. Press test on the analyzer.
7. Upon completion of the test, close the valve on the cylinder, disconnect the hose from the inlet of the oil trap syringe, depress the plunger on the oil trap syringe to expel the trapped oil.
8. Inspect the hose for signs of oil and replace the hose restrictor if necessary.
9. Disconnect the hose from the Pur•Chek™ Pro.

4.6 Viewing the Test Results

Upon completion of the test, the Pur•Chek™ Pro will display a screen similar to that shown in Figure 8 or Figure 9.

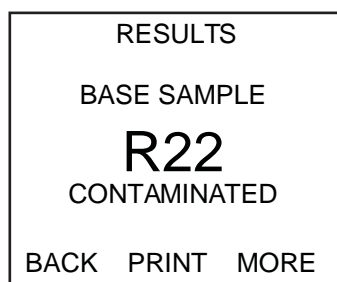


Figure 8.

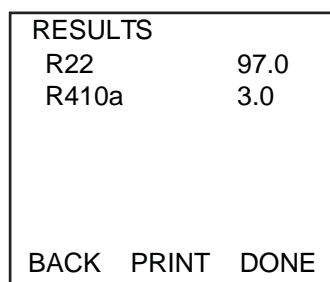


Figure 9.

If the refrigerant tested is 90% pure or better, the results will be displayed as shown in Figure 9. Should the refrigerant be less than 90% pure the results will be displayed as shown in Figure 10.

NOTE: Air is only displayed for R134A and only when the R134A refrigerant concentration is greater than 90%. “NON” represents non-condensable such as air or another diluting gas.

4.7 Contaminated Blend Refrigerants

The Pur•Chek™ Pro includes the ‘Blend Chek Pro’ feature for determining the presence of R410A. In the event that the Pur•Chek™ Pro determines that the primary refrigerant in the system or cylinder is likely to be R410A, the results will display as follows in Figures 10. Pressing the “MORE” button will display the detail screen shown in Figure 11. If the blend or refrigerant mixture is not recognized, the screen shown in Figure 12 will be displayed.

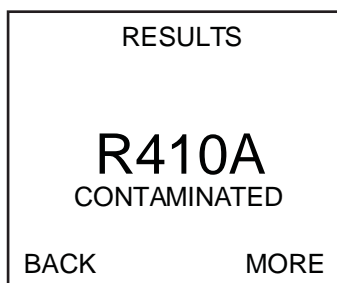


Figure 10.

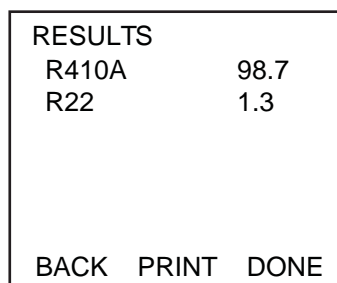


Figure 11.

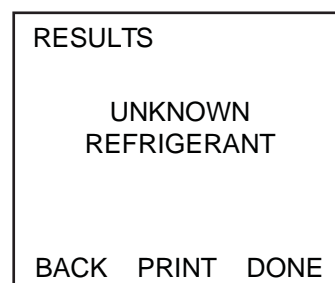


Figure 12.

4.8 Pure Blend Refrigerants

The Pur•Chek™ Pro has the ability to identify the following refrigerants: R408A, R409A, R417A, R421A, R421B, R422A, R422B, R422C and R427A. In addition, the instrument can both identify and analyze the component content of pure R134A, R22, R404A, R407C and R410A. Analysis of analyzed pure blend refrigerants will yield additional data regarding the composition of the refrigerant sample. The Pur•Chek™ Pro will display the blend refrigerant type as shown in Figure 13. Pressing the “MORE” button will display the detail screen shown in Figure 14.

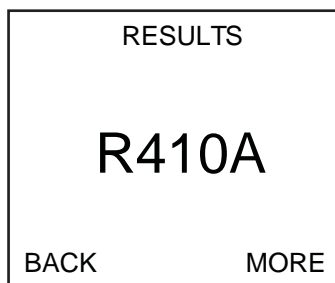


Figure 13.

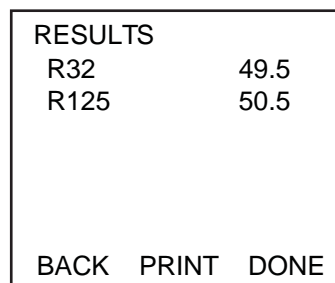


Figure 14.

4.9 Printing the Test Results

The test results can be printed by selecting the “PRINT” button. After the print is complete, carefully tear off the printout and the unit will return to the previous screen. Additional printouts may be made following the same procedure. To exit the test, press the “EXIT” button. Figures 15, 16, & 17, show sample printouts for various test results.

NOTE: Care must be taken to leave a clean edge when tearing off the printed results.

Neutronics Inc. Refrigerant Analyzer	
R134a	.0
R12	.0
R22	100.0
HC	.0

(Date)	

(Technician)	

Figure 15.

Neutronics Inc. Refrigerant Analyzer	
R125	49.8
R32	50.2
R410A	

(Date)	

(Technician)	

Figure 16.

Neutronics Inc. Refrigerant Analyzer	
R22	19.0
R134a	51.0
UNKNOWN	30.0
UNDETERMINED BLEND	

(Date)	

(Technician)	

Figure 17.

5 Maintenance & Troubleshooting

5.1 Setting the Elevation

During the initial power-up, the Pur•Chek™ Pro will indicate that the elevation has not been set. To set the elevation, press the “Help” button on the “Ready to Air Cal” screen as shown in Section 2.2, Figure 3. The screen will display several options as shown in Figure 16. Pressing the “SET” button will display the options in Figure 17.

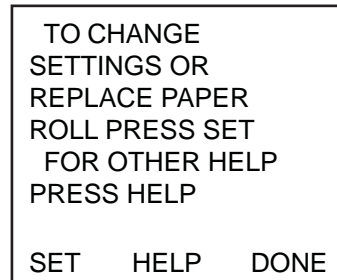


Figure 16.

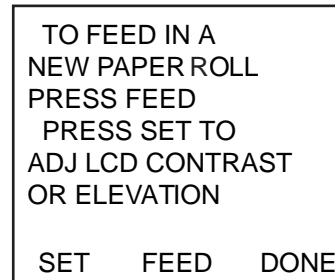


Figure 17.

Press the “SET” button shown in Figure 17 to display the screen options shown in Figure 18. Pressing the “ELEV” button will take you to the elevation screen shown in Figure 19. Use the “UP” & “DOWN” buttons to adjust the unit to the elevation in your area. Press the “SAVE” button when finished to return to the help screen (Figure 16).

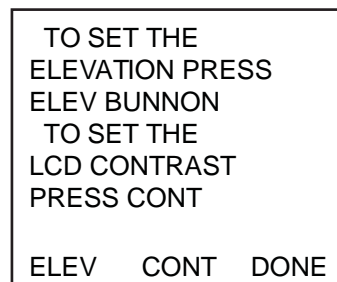


Figure 18.



Figure 19.

5.2 Setting the LCD Contrast

The Pur•Chek™ Pro features an adjustable LCD contrast for use in varying light conditions. To adjust the contrast, press the “HELP” button on the “Ready to Air Cal” screen as shown in Section 4.3, Figure 2. The screen will display several options as shown in Figure 20. Pressing the “SET” button will display the options in Figure 21.

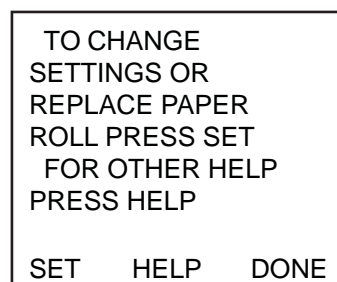


Figure 20.

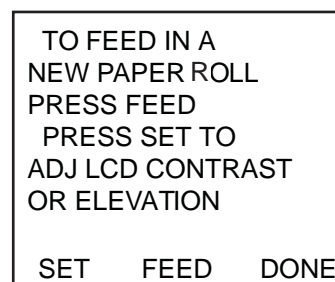


Figure 21.

5.3 Changing the White Plastic Sample Filter

When inspecting the sample filter, look completely around the entire outside diameter of the white filter element located inside of the clear plastic housing. Look for red spots or the beginnings of discoloration on the white outside diameter of the element. Do not look into the round ends of the white element for red spots or discoloration. The round ends of the filter may always appear red. If red spots or discolorations are discovered on the outside diameter, the sample filter requires replacement to prevent the influx of particulate and oil mists into the instrument.

Obtain a replacement filter, P/N 2100-0006. Remove the existing filter from the retaining clip of the instrument by pulling straight up and out. CAREFULLY remove the flexible, black rubber tubing connections from both ends of the existing filter. DO NOT allow the tubes to slip back into the internal portion of the case. Discard the existing filter in an environmentally friendly manner.

Install the tube ends onto the barbs of the replacement filter, taking note to align the flow arrow of the filter with the flow arrow of the instrument top panel. CAREFULLY slide the tubing back into the internal portion of the instrument and seat the new filter into the retaining clip. Inspect the sample hoses for signs of oil entrapment. Replacement of the sample filter usually requires cleaning or replacement of the sample hoses.

5.4 Replacing the Sample Hoses

Inspect the inside diameter of the tube for signs of oil build up, dirt, obstructions, kinks, cuts, fraying, or any other signs of wear. Oil contamination cannot be cleaned out of sample hoses due to the density of the oil restrictor. If oil is visible in the Low Pressure Vapor hose, replace the hose and restrictor with P/N 2100-0010.

For the High Side Liquid Sampling Hose, inspect the inside diameter of the tube for signs of oil build up, dirt, obstructions, kinks, cuts, fraying, or any other signs of wear. Oil contamination cannot be cleaned out of sample hoses due to the density of the oil restrictor. If oil is visible in the High Pressure Liquid Trap Hose, replace the hose and restrictor with P/N 2100-0010.

To replace the Restrictor Assembly, do the following:

1. Disconnect the sample hose from the analyzer
2. Remove the brass filter (with hose attached) from the coupler and discard. Be sure to use a backing wrench so as not to damage the coupler.
3. Check for signs of oil and debris in the coupler.
4. Using a cleaner that contains ONLY Tetrachloroethylene and carbon dioxide, spray all parts of the coupler with the cleaner to remove the oil, per the cleaner's instructions. DO NOT soak the part for more than 60 seconds.
5. Allow couple parts to dry. Check coupler parts for oil again. Failure to clean the oil out of the coupler will result in premature clogging of the new filter.
6. Install the new filter (P/N 2100-0010), into the coupler and lightly tighten. Finger tight is sufficient.

5.5 Changing the Printer Paper

Pur•Chek™ Pro Diagnostic Refrigerant Analyzers use a custom inexpensive thermal paper for printing. The paper roll should be changed when a red stripe appears on the left side of the printout.

To change the paper roll, press the "HELP" button on the "Ready to Air Cal" screen as shown in Section 4.2, Figure 3. The screen will display several options as shown in Figure 22. Press the "SET" button to advance to the screen shown in Figure 23 and then press the "FEED" button.

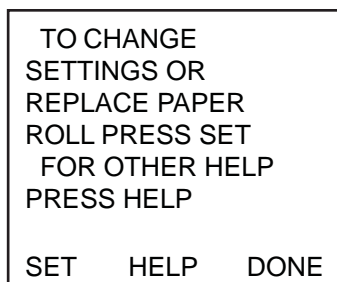


Figure 22.

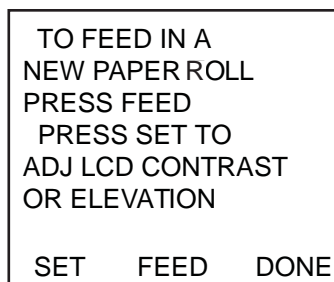


Figure 23.

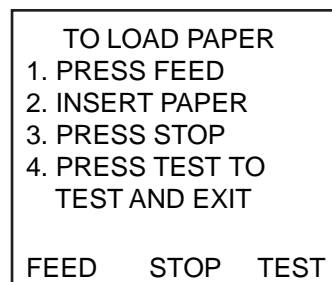
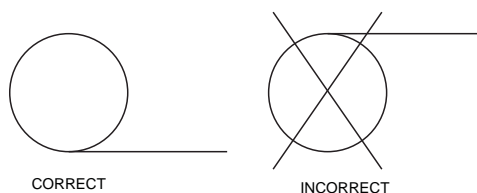


Figure 24.

Open the printer door and remove the old roll by tearing the paper as it enters the printer then pressing the “FEED” button shown in Figure 24 until the old roll exits the printer completely. Insert the new paper roll from the underside as shown below:



Press the “FEED” button shown in Figure 24 to automatically advance the paper through the printer. When the paper appears on the top of the printer, press the “STOP” button. Press the “TEST” button to print a test message and verify that the paper is installed properly. Slide the paper through the slot in the printer door and close the door.

5.6 Error Messages

In the unlikely event that an “Error” message is displayed on the screen, power off the unit, take it to a location outside of the shop environment where fresh air is available and turn the unit back on. If the “Error” message reappears, refer to the help screens on the instrument or contact our service department for assistance.

5.7 Software Updates

From time to time, software updates may be made available to improve operating performance or add additional features. Some updates will be provided at no charge to implement operating efficiencies while others will be optional, paid upgrades, to add new refrigerants etc. Many of the updates can be completed by the user however some will require the instrument to be returned to the factory for new gas calibrations.

The Pur•Chek™ Pro has a USB update port located within the battery compartment. This port should not be used for any other purpose other than to install factory updates using the Bacharach factory USB drive.

6 Replacement Parts

Part Number	Description
2100-0003	Printer Paper (Single Roll)
2100-0004	AC Adapter
2100-0006	Replacement Sample Filter
2100-0007	Optional Rechargeable Battery Kit w/ Battery and Charger
2100-0008	Low Pressure Vapor Sample Hose
2100-0009	High Pressure Liquid Sample Hose Assembly
2100-0010	Spare Low Pressure Sample Hose Filter
2100-0012	Spare Rechargeable Battery
2100-9001	Instruction Manual

7 Service Centers

Service and replacement parts can be found by contacting any of the following Bacharach Service Centers:

United States

Bacharach, Inc.
621 Hunt Valley Circle
New Kensington, PA 15068
Phone: 724-334-5000; press 2 at prompt
Fax: 724-334-5723
Email: help@mybacharach.com

Canada

Bacharach of Canada, Inc.
20 Amber St. Unit #7
Markham, Ontario L3R SP4
Canada
Phone: 905-470-8985
Fax: 905-470-8963
Email: bachcan@idirect.com

NOTES:



World Headquarters:

621 Hunt Valley Circle, New Kensington, PA 15068
PH: 724-334-5000 • Toll Free: 800-736-4666 • Fax: 724-334-5001
Website: www.mybacharach.com • Email: help@mybacharach.com

