

Frequently Asked Questions



Pur•Chek™ Pro Refrigerant Analyzer FAQ's

1. What is a refrigerant analyzer?
 - A refrigerant analyzer is an instrument designed to differentiate between various types of refrigerants and analyze their component content.
2. How do refrigerant analyzers work?
 - Each type of refrigerant has a unique infrared signature. Analyzers take a small sample of the refrigerant and use infrared technology to interpret these signatures and analyze the refrigerant. Certain refrigerants can be analyzed in depth including determining the component breakdown. Other refrigerants can only be identified.
3. What refrigerants can the Pur•Chek Pro analyze?
 - The instrument can analyze R134A, R22, Hydrocarbons, R404A, R407C and R410A.
4. What refrigerants can the Pur•Chek Pro Identify?
 - The instrument can identify many other refrigerants including R408, R409, R417, R422 and R427.
5. How are the test results displayed?
 - Test results are displayed on the LCD display including the refrigerant type and percentage. The total of the percentages will be 100%. Eg. R22 95%, R134A 5%.
6. What happens if I test a refrigerant that is not on the list of refrigerants this unit can test?
 - If the refrigerant tested is not measured by the instrument, a result of “Unknown Refrigerant” will be displayed.
7. Does the Pur•Chek Pro require calibration?
 - Yes, calibration is automatic and done prior to each test. An annual factory recalibration is recommended.
8. How many filters does the unit have?
 - The Pur•Chek Pro has two filters. One metal filter at the coupler end of the hose and a white filter on the unit.





9. What does the metal filter near the coupler do?
 - The metal filter has two functions. It reduces pressure and slows the migration of oil and liquid refrigerant. For sampling liquid, this filter may require frequent replacement.
10. What does the white filter on the top of my unit do and do I have to replace it?
 - The filter on the top of the unit prevents small amounts of oil and liquid from getting into the unit. If red spots appear on the filter, it should be changed.
11. How do I know when either filter needs to be replaced?
 - If oil or liquid appears in the clear hose the metal filter should be replaced. If pink or red spots appear on the white filter it should be replaced.
12. Can the filters be cleaned?
 - No, the filters cannot be cleaned. They must be replaced with new unused filters.
13. What different powering options are there?
 - This unit can be powered in two ways: The default 90 – 240 VAC power adapter or an optional internal battery.
14. How many tests can be run before the optional internal battery must be recharged?
 - The Pur•Chek Pro can run approximately 30 tests on a freshly charged battery.
15. Can I power my unit from my battery charger?
 - No, the battery charger can only charge the internal battery.
16. Can it test liquid refrigerant?
 - Yes, a liquid testing assembly is supplied with the unit and must be used if testing liquid.
17. Are liquid tests more accurate?
 - Generally, the results are the same for testing liquid or vapor. Gas Chromatographs use liquid samples to get the best representation of the sample contents.
18. What is the maximum sample pressure?
 - The maximum pressure rating is 300 Psig
19. What is the minimum pressure required for operation?
 - The minimum pressure required for accurate readings is 20 Psig.

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