

QwikShot® Acid Flush™

QwikShot® Acid Flush™ has a unique patented design, which carries unwanted acid into the filter-drier where BOTH the acid and Acid Flush are removed. QwikShot® is the only acid treatment on the market guaranteed not to invalidate any equipment manufacturer's warranty.

- Guaranteed safe for all systems
- OEM Approved
- Works with all refrigerants, oils, and filter-driers
- Produces no residue or contamination
- One bottle treats up to a 5-ton unit



**Click Here
for Complete Instructions
for Using
QwikShot® Acid Flush™**

For more details or information about QwikShot® Acid Flush™ or other QwikProducts™, visit www.qwik.com

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QwikShot® Instructions

For use in A/C and Refrigeration systems that operate with any refrigerant (CFC, HCFC, or HFC) and any oil (mineral, AB, PAG, or POE).

Step 1 - Check the Refrigerant for Acid.

If the compressor has not burned out, use a Mainstream QwikCheck® to determine if the refrigerant is acidic. If the refrigerant tests highly acidic (indicator turns red) or there was a compressor burn-out change the refrigerant and the oil.

If the refrigerant tests mildly acidic (indicator turns slightly orange/pink) you need not change the refrigerant or the oil, but you must **use the QwikShot® and always change the filter/driers.**

If the Refrigerant does not test acidic, then QwikShot® is not needed but can be used as a preventative measure.

Step 2 - Determine the Size of the Filter/Drier in the System

Determine the recommended filter/drier for the system. If the manufacturer does not make any specific recommendations, high-acid liquid and suction filter/driers compatible with the refrigerant being used are recommended. Activated Alumina or molecular sieve filter driers can be used.

Determine either the combined "Water Capacity" (in drops of water) of the filter/driers being installed, the total desiccant volume of the filter/driers being installed (this is typically the first two digits on the filter number, for example a Sporlan C-032 has 3 cubic inches of desiccant, a Sporlan C-164 has 16 cubic inches of desiccant, or a Valcon TCH-082 has 8 cubic inches of desiccant), or the tonnage of the system the filter/dryer is installed in.

Step 3 - Determine the Amount of QwikShot® to use.

Use the QwikShot® Dosage Chart to determine the amount of QwikShot® Acid Flush™ to use. Always shake before using and **use the entire bottle.**

Step 4 - Add the QwikShot® Acid-Liberator to the Compressor Oil

If the compressor burned-out, then change the compressor. If the compressor is operational, but the refrigerant tested highly acidic in Step 1, change the compressor oil and refrigerant - See Step 1. Install the recommended filter/driers.

Add the QwikShot® Acid Flush™ to the compressor oil. The QwikShot® Acid Flush™ is to be added to the compressor oil directly. For change-outs, the QwikShot® can be poured directly into the new compressor's crankcase before installing the compressor.

Follow standard industry practices for evacuation and charging of the system.

Step 5 - After at least 8 hours of operation change the Filter/Driers

After at least 8 hours of operation, but typically not more than 7 days of operation, it is recommended that the filter/driers be changed again. This will assure maximum benefit from the QwikShot® Acid Flush™. For even better acid removal a "Second Shot" of the QwikShot® can be introduced at this time. Repeat Steps 4 and 5.

QwikShot® Dosage Charts

How to Use the QwikShot Dosage Charts

The most accurate method of determining the number of bottles of QwikShot to use is by using the combined water capacity or combined desiccant volume of **all** filter/driers in the system (Add the capacity of the Suction and Liquid driers). As stated earlier the desiccant volume of the filter/drier can typically be determined by the first two numbers in the filter/dryer part number. A less accurate method is to estimate the quantity by using the rated capacity (in tons) of the system.

| QwikShot® Dosage Determined from Filter/Drier's Water Capacity (Preferred Method) | |
|--|---------------------------------|
| Filter/Drier's Water Capacity in Drops | Number of Bottles to Use |
| 10 - 100 Drops of Water | 1 Bottle |
| 101 - 200 Drops of Water | 2 Bottles |
| 201 - 300 Drops of Water | 3 Bottles |
| 301 - 400 Drops of Water | 4 Bottles |
| QwikShot® Dosage Determined from Total Filter/Drier Volume (Alternate Method) | |
| Liquid- and Suction-Side Combined Drier Volume | Number of Bottles to Use |
| 6 - 10 Cubic Inches | 1 Bottle |
| 11 - 20 Cubic Inches | 2 Bottles |
| 21 - 30 Cubic Inches | 3 Bottles |
| 31 - 40 Cubic Inches | 4 Bottles |
| QwikShot® Dosage Determined from System Capacity (Approximate Method) | |
| Rated Capacity in Tons | Number of Bottles to Use |
| 0.2 - 3.0 Tons | 1 Bottle |
| 3.1 - 6.0 Tons | 2 Bottles |
| 6.1 - 9.0 Tons | 3 Bottles |
| 9.1 - 12.0 Tons | 4 Bottles |

Limited Warranty

Mainstream Engineering Corporation ("Mainstream") expressly warrants that QwikShot® Acid Flush™ will be free from defects and, if used properly and in accordance with the product's use instructions, will not damage any air conditioning, heat pump or refrigeration compressor made by any compressor manufacturer. Mainstream will, at its option, replace or refund the purchase price of any package of QwikShot® Acid Flush™ that is found to be defective. If any air conditioning, heat pump or refrigeration compressor is damaged as a direct and sole result of the proper use of QwikShot® Acid Flush™, Mainstream will, at its option, repair such damage or replace the damaged compressor (unless such damage is covered under the compressor manufacturer's warranty).

LIMITATION OF WARRANTY

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