

Technical Data Sheet



Checkmate Refrigerant Test Kit

Part # RT700K

Checkmate Detector Tubes

Part # RT750A, Acid Detector Tubes

Part # RT751M, Moisture Detector Tubes

Part # RT752C, Oil Detector Tubes

Overview:

The Checkmate method is the industry's only valid field test for measuring the acid and moisture levels (purity) of refrigerant gas. Predict and prevent the likelihood of compressor failure by checking the contaminant levels in the compressor oil of an operating HVACR system. Detector tube results take less than a minute.

Used Where:

Simply insert a detector tube into the Checkmate body and connect the device up to a cylinder of refrigerant gas or on the low side of a system (refer to *Directions* below). Use the acid and moisture tubes to determine the contaminant levels in refrigerant gas that has been recovered or reclaimed. Use the oil detector tubes to determine the contaminants in the oil phase of a working system.

Directions:

1. For proper use and directions, download the user manual in the link provided:
https://www.refrigtech.com/wp-content/uploads/2019/01/Checkmate_Manual.pdf
2. Video tutorial: <https://www.refrigtech.com/checkmate/>

Construction:

The Checkmate body is a brass tube holder containing stainless steel needles. Detector tubes are made of heavy walled Pyrex glass tubing. The detector tube indicator materials are packed under dry nitrogen.

Validation:

The Checkmate method has been tested for accuracy by leading AHRI approved laboratories. Checkmate is used by OEMs, refrigerant manufacturers, refrigerant reclaimers and service technicians worldwide.

Warranty:

The Checkmate device is guaranteed to be free of manufacturing defects for a period of one (1) year from date of purchase. Full replacement is subject to inspection. The acid and oil detector tubes have a minimum shelf life of one (1) year from date of manufacture. Moisture detector tubes have a shelf life of three (3) to six (6) months from date of manufacture and must be stored under refrigeration. Moisture tubes not stored properly may prematurely expire and are not covered under the standard warranty. All tubes must be stored away from heat to prevent premature expiration.



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