

# TIGAR MiC™

Total Integrated Gauge Analogue Response

## Mechanical Analog Display Micron Gauge

- Easy-to-read 2.375" diameter analog 30,000 micron dial with 200 micron increments
- Reliable analog readout utilized in residential, commercial & industrial applications
- Readings not skewed by moisture/oil contamination
- Isolation ball valve prevents gauge damage
- No power or batteries are required



Part No. 340KIT

A robust field tool for measuring deep vacuum in microns: Includes 2 Valve Core Removers.

ELIMINATES THE NEED FOR HOSES, ENSURING VACUUM MEASUREMENT ACCURACY.



GO Distribution

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# MEASURING DEEP VACUUM JUST GOT EASIER, MUCH EASIER

## TIGAR MiC™



Specifically designed for the HVACR field technician, TIGAR MiC is not intended to be used in lab conditions which require extreme accuracy over the full range of vacuum. TIGAR MiC requires no batteries or auxiliary power sources, and will reliably and accurately measure the elimination of air, non condensable, and moisture from the refrigeration system in the field. The kit includes one micron vacuum gauge with an integrated isolation ball valve and two Valve Core Removers #301VCR, which enables removal of the high and low side charging cores, drastically reducing refrigerant recovery and vacuum procedure times.

The Tigar MiC deep vacuum micron gauge is a diaphragm aneroid type gauge which uses a series of metallic capsules. The use of capsules allows for much greater accuracy than the standard bourdon tube technology used in most manifold sets.

5 year Limited Warranty

### VACUUM GAUGE DIAL DESCRIPTION

1) Scale is shown as 30,000 to 0 microns, the major scale is divided into steps of 1,000 microns, the minor scale being 200 microns using the reference point of 25,400 microns = 1 inch mercury. The gauge is color coded into 4 distinct zones.

**Red band:** 30,000 to 25,400 indicates approximately 0.18 inch of mercury reading. On your compound manifold gauge set 30,000 micron would be approximately 28.82 inches mercury vacuum. At this level of vacuum, little or no moisture or non condensable has been removed. Red indicates that no useful work has taken place.

**Yellow band:** 25,400 to 2000 indicates the beginning of the 29 inch mercury on your compound gauges down to 29.92 inches mercury vacuum. This region serves as an indicator for identifying larger leaks and/ or poor vacuum connections.

**Blue band:** 2,000 to 500 microns is the region where moisture begins to boil off. This is where the most work takes place.

**Note:** Internal system conditions can be understood by pulling down midway into the blue region. Isolate the vacuum pump and the VCR tool. A rise in pressure up to approximately 2000 - 2300 micron and stabilizing will indicate high moisture contents, residual refrigerant, non condensable are still contained in the system. Once all moisture, refrigerant and non condensable have been removed this condition will not resurface.

**Green band:** 500 microns and below is considered the safe zone where all non condensable have been effectively removed. Green gives the technician the go ahead to begin recharging the unit.

2) The vacuum gauge is equipped with a standard ¼ inch female flare fitting.

3) The vacuum gauge has a ¼ turn integral ball valve for the purpose of isolating it from system pressure.

**Note:** Before charging the unit with refrigerant, always close the isolation valve on the micron vacuum gauge first.

4) The gauge housing is machined aluminum.

**CALIBRATIONS:** The vacuum gauge has been calibrated at the factory and should not need to be recalibrated for many years of service as long as it has not been subjected to pressures above atmospheric. The precision of the gauge is accurate within 1% between 0 and 10,000 and 2.5% between 10,000 and 30,000.



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SIMPLIFYING A/C/R REPAIR