This procedure describes the use of a gas verification kit to verify operation of various HGM units.

2. MATERIALS REQUIRED

- A supply of 3/16” tubing
- Variable flow regulator
- Reference gas cylinder
- Plastic stem connector
- Appropriate user interface for sample gas verification, e.g., an SZ, an MZ, an MZ with optional RD, or an HGM300 with either an RDM-800 or a PC using the HGM PC Interface Software

3. SETUP PROCEDURE

- POWER ON
- VERIFY COMMUNICATIONS
- WAIT FOR WARM-UP
- ASSEMBLE GAS KIT
- PREPARE GAS PORT
  (DISCONNECT TUBE)
- SET REFRIGERANT TYPE
- SET TUBING DISTANCE
- SET ZONE HOLD TIME
- ENTER ZONE HOLD MODE
- ENSURE “HOLDING”
  (NOT PURGING)
  (You may need to wait for PURGE cycle to complete.)
  (Your Screen May Vary)

To place an MZ zone on hold, select the zone at the main run screen using the arrow keys, then press and hold the ENTER key until the unit beeps. The word “HOLDING” will appear in the status box.

To place an HGM-300 zone on hold, select the ZONES option, then press and hold the ZONE 1 key until the unit beeps. The word “HOLDING” will appear in the status box.

(Continued)
4. TEST PROCEDURE

CONNECT TEST GAS
OPEN FLOW KNOB

ATTACH TO MONITOR

GAS MONITOR

GAS SAMPLE INLET
(LOCATION AND STYLE MAY VARY)

FLOW KNOB

PRESSURE GAUGE

FLOW METER

REGULATOR

GAS FEED LINE

CALIBRATION GAS CYLINDER

ADJUST FLOW

GAS FLOW TOO LOW
(NOT ENOUGH TO TEST)

GAS FLOW OPTIMAL
(FLOW METER BALL IS AT MIDPOINT)

GAS FLOW TOO HIGH
(ENOUGH TO TEST, BUT GAS IS BEING WASTED)

READING STABILIZES

VERIFY READING

(Your Screen May Vary)

(Your Screen May Vary)

(Until will automatically exit ZONE HOLD mode after ZONE HOLD MINUTES expire.)

WITHIN SPECIFICATIONS
OF CYLINDER PPM

If reading is not within specifications, verify connections and procedure. Refer to manual(s) for calibration adjustments (www.MyBacharach.com) or contact Bacharach Customer Service.