



# DIGITAL REFRIGERATION SYSTEM ANALYZER

*Advanced, durable tool for the professional HVAC&R technician*

A great deal of information lies hidden behind the vibrating needle of a typical analog gauge. Is the TEV valve modulating properly, or is there liquid flooding back in the system?

Digi-Cool offers unprecedented diagnostic power with the Digital Refrigeration System Analyzer (DRSA). The  $\pm 0.5\%$  F.S. accurate digital display with patented fluctuation bar graphs allows you to see pressure dynamics intuitively. Bubble and dew points for 16 refrigerants on-board means no more wallet cards. Built by a technician with modern engineering, the unit will endure years of field use.

To save time and frustration, try the Digi-Cool analyzer and you will never go back!



Service Manifold not included

## FEATURES:

- Includes profiles for 16 common refrigerants within:

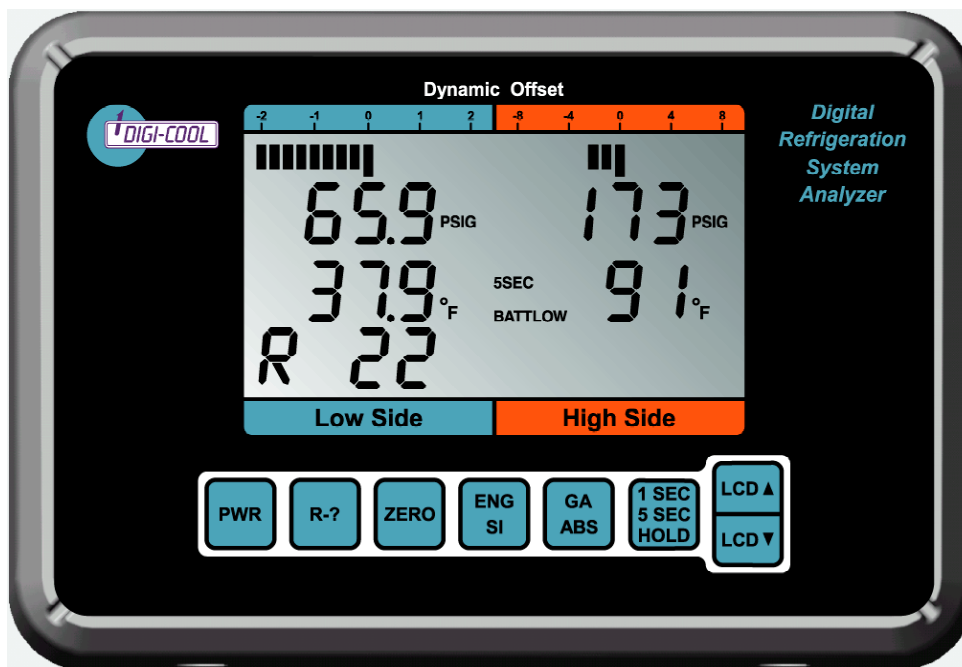
R-12	R-22	R-134A	R-401A
R-401B	R-402A	R-402B	R-404A
R-406A	R-407C	R-408A	R-409A
R-410A	R-414B	R-502	R-507

- "Dynamic Offset" bar graph clearly shows modulation of control valves
- Adjustable digital readout update rate: 1 second, 5 second or hold digits.
- Auto zero key eliminates manual recalibration.
- Includes vacuum readings
- Easy to read LCD screen with large digits.
- Automatic power off after 15 minutes preserves battery life; low battery indicator.
- Upgradeable for new and additional refrigerants
- Splash resistant and wide temperature range for indoor & outdoor use; case resistant to typical oils, acids and sun exposure



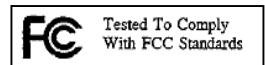
## HOW IT WORKS:

- Bar graph segments shows changes from digital reading
  - Range of  $\pm 2$ psi on low-side,  $\pm 8$ psi on high-side
  - In example below, low-side has dropped 2psi to 63.9psig since update, high-side has dropped 2psi to 171psig since update
- Digital readings have  $\frac{1}{4}$  psi resolution on low side, 1 psi resolution on high side
  - Example below shows 5-second updates selected
- Temperature shown is corresponding bubble and dew points for current pressures
- Currently selected refrigerant on bottom left
  - Selectable ASHRAE / Trade Number Mode (eg. "R-410B" vs "66" for MP66)



- R-? selects active refrigerant
- ZERO automatically calibrates to current atmospheric pressure
- ENG / SI changes between English (PSI, "Hg, °F) and SI (kPa, °C) units
- GA / ABS changes between PSIA and PSIG for English units
- 1SEC / 5SEC / HOLD changes the rate digits are updated
- LCD  $\uparrow$  /  $\downarrow$  changes contrast to fit lighting conditions

## Two-year limited warranty against manufacturing defects



### BTD-1000 SPECIFICATIONS:

ACCURACY: 0.5% F.S.  $\pm$  1 least significant digit, calibration traceable to NIST

PRESSURE PORTS: 1/8" NPT

supplied with swivel joints and street elbows to fit your manifold

WORKING PRESSURE: Low side: 0-200psia (1350 kPa) High side: 0-550psia (3000 kPa)

PROOF PRESSURE: Low side: 600psia (4100 kPa) High side: 1500psia (10300 kPa)

BURST PRESSURE: Low side: 2000psia (13500 kPa) High side: 5000psia (34500 kPa)

USAGE ENVIRONMENT: Indoor/Outdoor

AMBIENT TEMPERATURE: -4 to 122°F (-20 to 50°C)

MOISTURE EXPOSURE: Dew, splash and rain resistant; do not immerse in water

POWER SUPPLY: 4 AA Batteries

BATTERY LIFE: approx.6 months under normal use

WEIGHT: 1.6lb (740g)

DIMENSIONS: 7.3 x 4.9 x 2.6" (18.5 x 12.5 x 6.5cm)

US PATENT: #5,311,745

CAN. PATENT: #2,107,134