



# DRSA-1200 DIGITAL REFRIGERATION SYSTEM ANALYZER

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

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

Digi-Cool offers unprecedented diagnostic power with the Digital Refrigeration System Analyzer (DRSA). The patented pressure bar graphs allow you to see pressure dynamics intuitively for quick diagnosis. Automatic saturation, subcooling and superheat readings mean no more wallet cards. Conceived by a technician with modern engineering, the unit will endure years of field use.

The new DRSA-1200 features an integrated temperature probe to automatically calculate superheat and subcooling, and pressure extremes monitoring for simple pressure controls set-up, for even greater convenience during start-ups.



Service Manifold not included

## FEATURES:

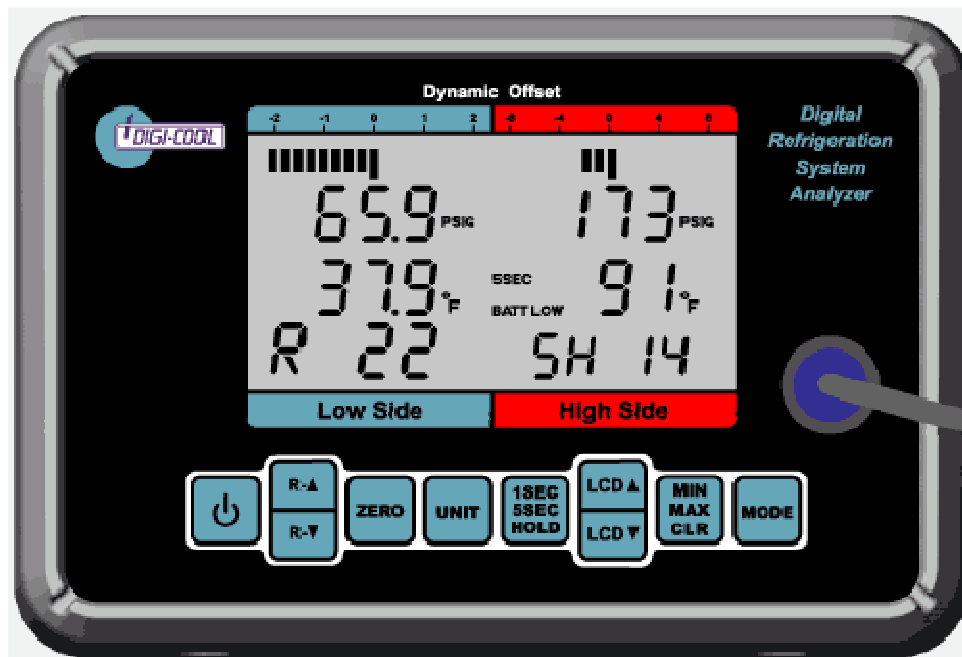
- Includes profiles for 23 common refrigerants within:
 

R-12	R-22	R-134A	R-290
R-401A	R-401B	R-402A	R-402B
R-404A	R-406A	R-407C	R-408A
R-409A	R-410A	R-414B	R-416A
R-417A	R-420A	R-422A	R-502
R-507	R-508B	R-600A	
- "Dynamic Offset" bar graph clearly shows modulation of control valves, system behavior and faults
- **New:** Temperature probe for automatic superheat and subcooling readings
- **New:** Max and min pressure monitoring for control set-up
- Auto zero key eliminates manual recalibration
- Detects vacuums in "Hg"
- Easy to read LCD screen with large digits
- Upgradeable for additional refrigerants
- Splash resistant and wide temperature range for indoor & outdoor use; tough case with protective boot 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
- Temperature in middle is corresponding bubble and dew points for current pressures
- Temperature, superheat or subcooling shown on lower right (eg 14°F superheat)
  
- R- $\uparrow$  /  $\downarrow$  selects active refrigerant
- ZERO automatically calibrates to current atmospheric pressure
- UNIT changes between traditional (PSI, "Hg, °F) and SI (kPa, bar, °C) units
- 1SEC / 5SEC / HOLD changes the rate digits are updated
- LCD  $\uparrow$  /  $\downarrow$  changes contrast to fit lighting conditions
- MIN / MAX CLR resets peak pressure memory
- MODE selects temperature, superheat, subcooling, max pressure, or min pressure displays



## Two-year limited warranty against manufacturing defects

### DRSA-1200 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)
TEMPERATURE SENSE:	-40 to 250 °F (-40 to 125 °C), $\pm 0.9$ °F ( $\pm 0.5$ °C) between 32 to 158 °F (0 to 70 °C)	
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:	9V Battery	BATTERY LIFE: approx. 6 months under normal use
WEIGHT:	1.6lb (740g)	DIMENSIONS: 7.3 x 4.9 x 2.7" (18.5 x 12.5 x 6.8cm)