

BLACKMAX[®]

DIGITAL MANIFOLDS

INDUSTRY LEADING ACCURACY

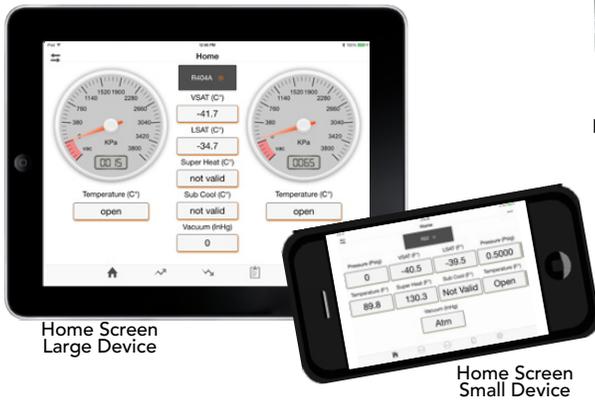


Call and speak to a CPS representative. Customer Service: +1 (305) 687-4121 | Toll Free: (800) 277-3808

BLACKMAX® WIRELESS DIGITAL MANIFOLDS WITH CPS LINK™ APP

Our digital manifolds combine the latest design and electronic measurement features into one easy-to-use, accurate and water resistant product in a rugged nylon plastic housing, incorporating a durable elastomeric keypad and large backlit LCD display. Two and four valve manifolds are designed and manufactured in the USA with U.S. and globally sourced components.

CPS Link™ is patented technology for iOS and Android mobile applications (APPS), designed to communicate with and control select functions of BlackMax Digital Wireless Manifolds.



Home Screen Large Device

Home Screen Small Device

CPS LINK™ APP

CPS Link allows HVAC/R technicians the convenience of running and monitoring a BlackMax digital manifold (from up to 300 feet away), while also providing additional capabilities not found in non-wireless versions.

- Fast, convenient touch screen control
- Comprehensive views of system measurements
- Graphical depictions of test functions
- Data logging
- Geolocation data and more
- If your mobile device is not available, your wireless manifold may be operated as a stand alone device using the yellow keypad.

- Perform and monitor select system measurements—in real time without the need to physically touch the manifold
- Alternate views for smaller mobile devices
- Color scheme change according to refrigerant
- Pressure hold or vacuum hold tests can be viewed, saved, stored or emailed as a graph
- Supports over 100 common refrigerants, with quick access to your favorite five
- APP updates for new refrigerants
- Change manifold units; (Pressure, Temperature, Vacuum)
- Multi-language



Low Side Valve

Vacuum Valve

Sightglass

Refrigerant Valve

MD100W

High Side Valve

Connections For Thermistor Sensors

High Impact LCD Window

Mode (Programming)

Refrigerants

Clear

Set (Enter Values)

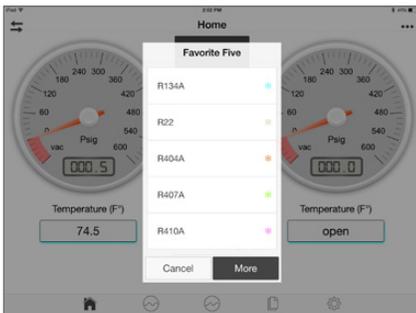
On/Off



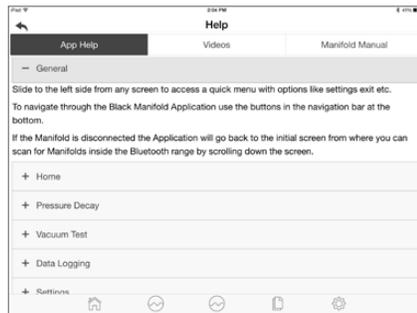
Superheat/ Subcool

Test (Pressure Hold, Vacuum Hold)

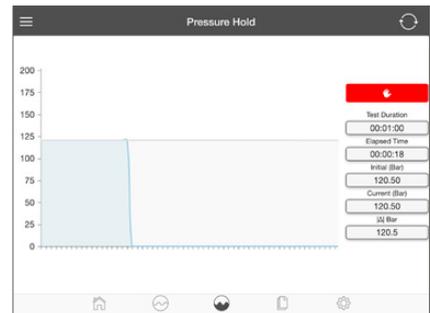
Backlight



Access Favorite Five Refrigerants



Help Screen



Vacuum Hold Test

For more information visit www.cpsproducts.com



**MD100WVHEC
BLACKMAX® LIMITED
EDITION CAMO FINISH
WIRELESS DIGITAL
MANIFOLD**



**BLACKMAX® DIGITAL MANIFOLDS
BEST-IN-CLASS ACCURACY**

- Pressure: 1% of reading pressure
- Temperature: superior thermistor sensors for +/- 0.2°C (+/- 0.4°F) accuracy
- Vacuum: direct system attachment achieves +/- 10 microns from 0 to 25,000 microns

SIMPLICITY AND VERSATILITY

- One key ON/OFF and function select
- Preloaded with over 100 refrigerants
- Compatible with R744 subcritical CO2 refrigerants
- One-touch access to your favorite five refrigerants
- Performs pressure decay and vacuum rise tests
- Uses 4AA alkaline or rechargeable batteries
- 25 hours of continuous battery life with backlight; 40 hours without

FULL SYSTEM MEASUREMENT

- 2 Pressures, 2 temperatures and vacuum (using MDXVG accessory)
- Vacuum rise and pressure decay test functions
- Simultaneously displays:
 - HI & LO Pressures, Superheat & Subcooling
 - HI & LO Pressures, T1 & T2
 - HI & LO Pressures, Saturation T1 & Saturation T2
 - HI & LO Pressures, Displays T1, T2 & Delta T

RUGGED DESIGN

- Rain-proof, high strength glass-filled nylon housing
- Precision machined anodized aluminum manifold body
- Proprietary Vortech™ valve systems (certified to 15 microns)
- High-impact polycarbonate LCD window
- Advanced sight glass design



MD100
Non-wireless 4 valve series



MD50
Non-wireless 2 valve series



BLACKMAX® Digital Manifolds	Number Of Valves	5' Black & Chrome Ball Valve Charging Hoses 3 Pk (HP5BKEZ)	5' Heavy Duty Black & Chrome Vacuum Hose (1) (HV5Z)	Thermistor Sensor with 6' leads (MDXCP) x 2	Vacuum Gauge Accessory Kit* (MDXVG)	Rechargeable NiMH Battery and Universal Plug Kit** (MDXBK)	Soft Case For All MD Series (MDXSC)
MD50	2			✓	Optional	Optional	Optional
MD50W Wireless				✓	Optional	Optional	Optional
MD50HE		✓		✓	Optional	Optional	Optional
MD50WHE Wireless		✓		✓	Optional	Optional	Optional
MD50VHE		✓		✓	✓	Optional	Optional
MD50VVHE Wireless		✓		✓	✓	Optional	Optional
MD100	4	Optional		✓	Optional	Optional	Optional
MD100W Wireless				✓	Optional	Optional	Optional
MD100HE		✓	✓	✓	Optional	Optional	Optional
MD100WHE Wireless		✓	✓	✓	Optional	Optional	Optional
MD100VHE		✓	✓	✓	✓	Optional	Optional
MD100VVHE Wireless		✓	✓	✓	✓	Optional	Optional
MD100VVHEC Wireless NEW! CAMO Limited Edition		✓	✓	✓	✓	Optional	Optional

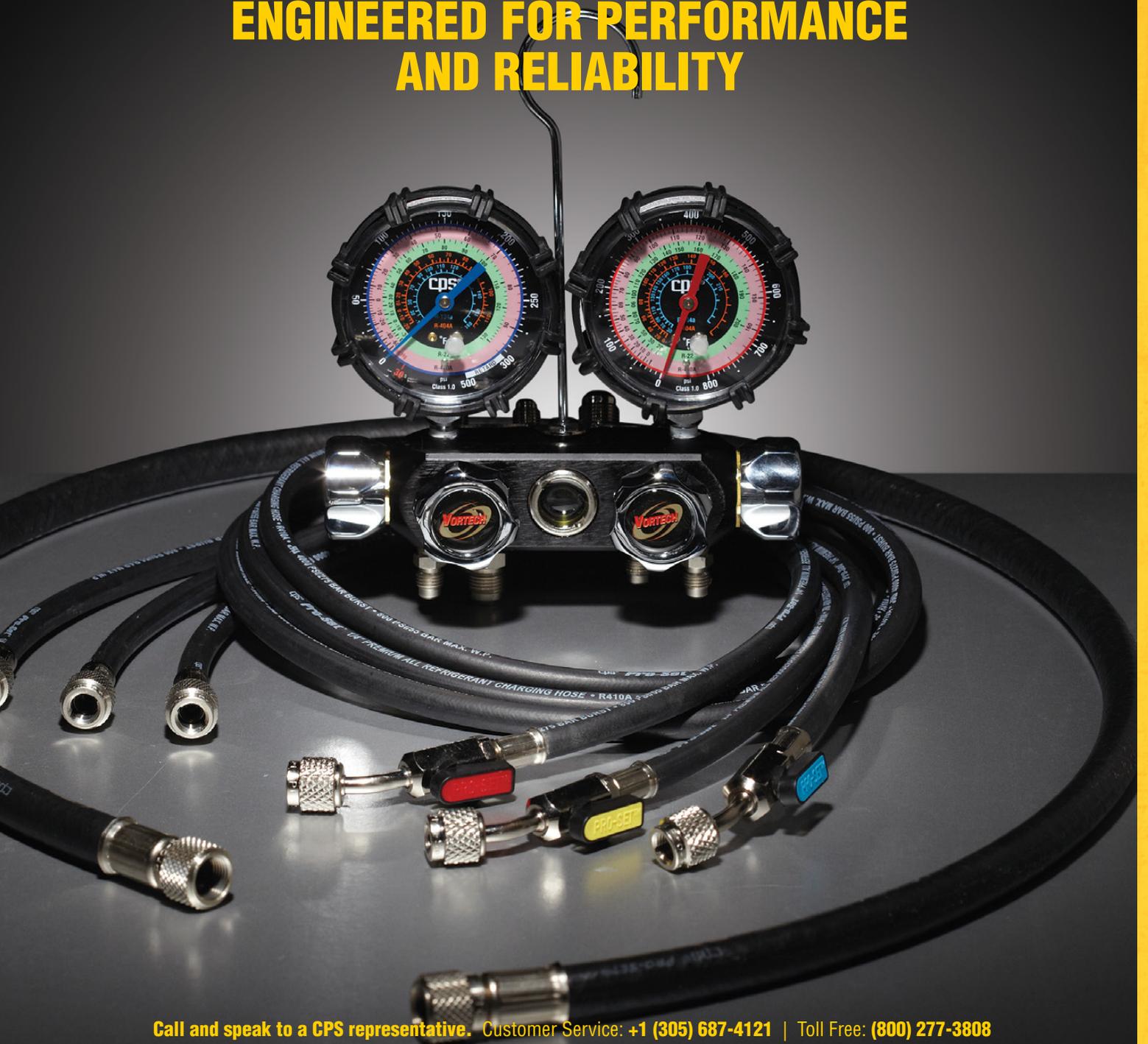
*Includes Vacuum Accessory & 1 AVT45 1/4" SAE Brass Tee Connector. **Includes 1 Universal Charger With 5' Cord; 4 rechargeable NiMH batteries, 1 U.S. Plug, 1 Euro Plug, 1 Australia/New Zealand/China Plug, 1 UK/Ireland/Singapore/Hong Kong Plug.



BLACKMAX[®]

BLACK & CHROME MANIFOLDS

ENGINEERED FOR PERFORMANCE
AND RELIABILITY



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BLACKMAX® BLACK & CHROME MANIFOLDS WITH VORTECH™ VALVES

- Two and four valve manifolds designed and manufactured in USA with U.S. and globally sourced components
- Proprietary Vortech™ valves (certified to 15 microns)
- Black anodized aluminum body with large sight glass
- Heavy duty nickel plated metal handles
- Auxiliary center access port with Schrader valve (2 valve units)
- Protective gauge boots and packaged in display tin
- Superior refrigerant metering and control



MV4H4P5EZ

BLACKMAX® BLACK & CHROME VORTECH™ VALVE MANIFOLDS

Specifications		3-1/8" (80 mm)	
		North America	South America
Gauge Description	Refrigerant Scales	R134a, R22, R404a, R410a	R410a, R22, R407c
	Gauge Size / Type	Class 1.0 accuracy * Gauges built with internal silicon dampening cup for flutter-free operation	
	Pressure Scales	Psi	bar / Psi
	Temperature Scales	°F	°C
Fittings	Manifold & Hose fittings	1/4" SAE 45° fittings	
Two Valve Manifolds	3 Premium 5' Pro-Set® Black & Chrome Hoses	MV2H4P5Z	MV2O4P5Z
	3 Premium 5' Pro-Set® Black & Chrome BV Hoses	MV2H4P5EZ	MV2O4P5EZ
Four Valve Manifolds	3 Premium 5' Pro-Set® Black & Chrome Hoses	MV4H4P5Z	MV4O4P5Z
	3 Premium 5' Pro-Set® Black & Chrome BV Hoses	MV4H4P5EZ	MV4O4P5EZ
Replacement Gauges	Low Side Gauge	RGH4L	RG04L
	High Side Gauge	RGH4H	RG04H
	Gauge Boot	RGX80B	RGX80B



RGH4L

RGH4H



MV4H4Z

BLACKMAX® BLACK & CHROME BARRIER CHARGING HOSES



HP5BKEZ

5' premium barrier ball valve chrome charging hoses (black)



HP5BKZ

5' premium Black & Chrome™ charging hose

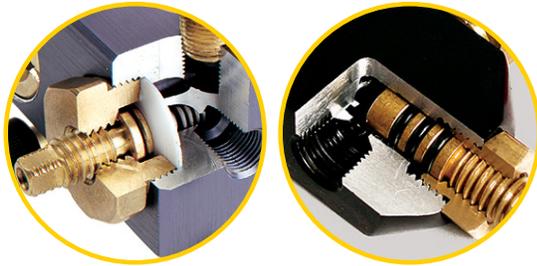


HV5Z

5' premium Black & Chrome™ 3/8" charging hose

BLACKMAX® BLACK & CHROME MANIFOLDS WITH TRIPLE-SEAL VALVES

- Proprietary Triple Seal valve systems



- 2 valve units designed and manufactured in USA with U.S. and globally sourced components
- Black anodized aluminum block body
- No flutter gauges with protective boots and rugged metal housings
- Nickel plated 1/4" SAE 45 fittings
- Auxiliary center access port with Schrader valve
- Heavy duty nickel plated metal handles
- Protective gauge boots and packaged in display tin
- Proprietary Vortech™ valves



MBH4P5EZ



RGH5L



RGH5H



**RGX681B
(Spider Design)**



**RGX801B
(Ribbed Design)**

BLACKMAX® BLACK & CHROME TRIPLE SEAL VALVE MANIFOLDS

Specifications		3-1/8" (80 mm)		2-1/2" (68 mm)	
		North America	South America	North America South America Australia	North America
Gauge Description	Refrigerant Scales	R134a, R22, R404a, R410a	R410A, R22, R407C	R410a	R134a, R22, R404a, R410a
	Gauge Size / Type	Class 1.0 accuracy		Class 1.6 accuracy	
	Pressure Scales	Psi	bar / Psi	Psi / kPa	Psi
	Temperature Scales	°F	°C	°F / °C	°F
Fittings	Manifold and Hose Fittings	1/4" SAE 45° fittings			
Two Valve Manifolds	Manifold & Gauges Only	MBH4Z	MBO4Z	MBB5Z	MBH5Z
	3 Premium 5' Pro-Set® Black & Chrome Hoses	MBH4P5Z	MBO4P5Z	MBB5P5Z	MBH5P5Z
	3 Premium 5' Pro-Set® Black & Chrome BV Hoses	MBH4P5EZ	MBO4P5EZ	MBB5P5EZ	MBH5P5EZ
Replacement Gauges	Low Side Gauge	RGH4L	RG04L	RGB5L	RGH5L
	High Side Gauge	RGH4H	RG04H	RGB5H	RGH5H
	Gauge Boot	RGX801B Ribbed	RGX801B Ribbed	RGX681B Spider	RGX68SB Spider

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