

Mississippi State University
Notice of Proposed Sole Source Purchase

245-113

Mississippi State University anticipates purchasing the item(s) listed below as a sole source purchase. Anyone objecting to this purchase shall follow the procedures outlined below.

1. Commodity or commodities to be purchased (make, model, description):

ParvoMedics TrueOne® 2400 Metabolic Measurement System includes:
Compact Analyzer Module
 Paramagnetic Oxygen Analyzer (range 0-100%)
 Single Beam High Speed Infrared Carbon Dioxide Analyzer (range 0-10%)
 Pressure Transducer/Demodulator
 Pneumotach Heater Control
 Gas Sampling Flowmeter and Control, Auto-Cal Control Hardware
OUSW-4.3 Windows O2 Uptake Software
 System validated and published in JAP
 40-Second Gas Auto-Cal
 Precision Flowmeter Calibration Algorithm
 Real-Time O2, CO2, and Flow Signal Graphic Display
 Scrollable Results Display During Testing
 Large-Font Digital and Graphic Display of Metabolic Testing Variables
 On-Line Configuration and Screen Update During Testing
 Events Charting and Editing During and After Testing
 User Configurable Text and X-Y-Y Graphic Reports
 Filing System For Results Tracking and Patient Look-up
 Results Exporting to Excel Format, Flow Cal and Gas Cal Logs
 Maintenance Log Reminder
Dell Optiplex Small Form Factor Computer with Flat Panel LCD Monitor,
Windows 11 Pro
Laser Printer
A/D Card and Analog Signal Cable
Hans Rudolph Breathing Circuits
 Heated Pneumotach (0-800 L/min),
 3-Liter Calibration Syringe,
 Head Support,
 (2) Non-Rebreathing Valve,

(1) 6-ft Breathing Tube,
(1) Rubber Adapter,
Water Trap Assembly w/ (6) Filters,
(3) Reusable Noseclips,
(3) Mouthpieces Reusable
(1) 9-ft Breathing Tube
4-Liter High-Efficiency Mixing Chamber
(5) 5um Gas Sampling Filters, (4) PermaPure Drying Lines, (2) PermaPure Drying
Loops
3-Shelf Mobile Cart with Extra Large Wheels, Gas Mounting Brackets, 10-ft
Power Strip
Swing Arm with Adapter Bracket, Thermometer/Barometer/Humidity Weather
Station
Polar Heart Rate Interface (Includes receiver's plug)
2-Stage CGA973 Gas Regulator
Standard Calibration Gas, ED Cylinder:
O₂ 16%, CO₂ 4%, N₂ Bal, Accuracy: +/- 0.03%, Connection: CGA973,
560L@2200psi
Operator's Guide and Installation Manual
Warranty: 3-Year Warranty for TrueOne® Analyzer, Pneumotach, Dell Computer,
and Monitor
Add-on Dilution Option (Canopy Option)
Dilution Software
Canopy and Drape
Dilution Pump
Pump Control & Power Cord
Gas Regulator
ED-Cylinder Gas Tank with 1% CO₂, 16% O₂, Balance N₂
Single Tank Gas Hand Cart
Shipping and Handling included
1-Year Warranty for Printer

Extended Two-Year Warranty of TrueOne Analyzer and Pneumotach (optional)

2. Explanation of the need to be fulfilled by this item(s), how is it unique from all other options, and why it is the only one that can meet the specific needs of the department:

The Parvo Medics TrueOne® 2400 Metabolic Measurement System is essential for the Department of Kinesiology's ongoing research and instructional programs in exercise physiology, metabolic assessment, and cardiorespiratory performance testing. This system delivers a unique high level of ease, accuracy, validation, and long-term reliability required for both clinical testing and peer-reviewed research.

The department already owns and actively uses two Parvo Medics metabolic cart systems, and this new unit will integrate seamlessly with existing infrastructure, allowing shared calibration gases, data analysis platforms, and operational workflows across labs. This consistency not only improves efficiency but also enhances data comparability across research studies and teaching environments.

The TrueOne® 2400 is uniquely suited to meet departmental needs due to the following proprietary features:

- **Industry-Standard Accuracy:** The TrueOne® 2400 is one of the most frequently referenced metabolic systems in exercise science literature. Its breath-by-breath data make it a valid and reliable tool for scientifically publishable research.
- **Lab Integration:** The TrueOne® 2400 system integrates seamlessly with the department's existing treadmills, ergometers, ECG systems, and software platforms.

3. Name of company/individual selling the item and why that source is the only possible source that can provide the required item(s):

Parvo Medics, Inc.; This is the only manufacturer and distributor of this equipment

4. Estimated cost of item(s) and an explanation why the amount to be expended is considered reasonable:

\$32,474.00

Metabolic/CPET analysis devices are costly due to the sensitivity and precision that provide. The methods by which these devices work require very tight tolerances and manufacturing processes.

5. Explanation of the efforts taken by the department to determine this is the only source and the efforts used to obtain the best possible price:

The Department of Kinesiology has conducted a thorough evaluation of available metabolic testing systems and has determined that the Parvo Medics TrueOne® 2400 is a system providing unique capabilities for the department's stringent scientific, operational, and instructional requirements.

- **Internal System Consistency:** The department currently uses two Parvo Medics metabolic cart systems. Adding an identical unit ensures increased

standardization across laboratories, facilitates shared maintenance protocols, and supports collaborative research by minimizing data variability caused by differing hardware.

- **Direct Vendor Communication:** Parvo Medics is the exclusive manufacturer and distributor of the TrueOne® 2400 system. The department has engaged directly with Parvo Medics to confirm system capabilities and proprietary components.
- **Negotiated Pricing:** The department is working with Parvo Medics to purchase a 2025 model-year system.
- **Long-Term Cost Savings:** Thanks to system durability, long-lifespan sensors, and shared parts with the current units, the department anticipates reduced long-term maintenance and calibration expenses compared to other systems.

The decision to proceed with a sole source purchase is justified by Parvo Medics' exclusive rights to produce and sell the TrueOne® 2400 and the system's unparalleled alignment with the department's research, teaching, and equipment integration needs.

Any person or entity that objects and proposes that the commodity listed is not sole source and can be provided by another person or entity shall submit a written notice to:

Jennifer Mayfield, CPPO

Director of Procurement & Contracts

jmayfield@procurement.msstate.edu

Subject Line must read "Sole Source Objection"

The notice shall contain a detailed explanation of why the commodity is not a sole source procurement. Appropriate documentation shall also be submitted if applicable.

If after a review of the submitted notice and documents, MSU determines that the commodity in the proposed sole source request can be provided by another person or entity, then MSU will withdraw the sole source request publication from the procurement portal website and submit the procurement of the commodity to an advertised competitive bid or selection process.

If MSU determines after review that there is only one (1) source for the required commodity, then MSU will appeal to the Public Procurement Review Board. MSU will have the burden of proving that the commodity is only provided by one (1) source.