

Federal Grant Procurement Memo

Applies to purchases \$10,000 and above

Grant/Project Title: Name of project

Project Director/PI: Phil Lister

Grant Fund Cost Account: FD0002-CC300010-GR300350-7050-SC077-EX010D

<u>Description of Goods or Services:</u> Helium Leak detector for training vacuum system troubleshooting as part of the Quantum Technician Bootcamp.

Benefit to grant and CNM: Technicians will be trained on an ultra-high vacuum system including the skills required to assemble, maintain, operate, and troubleshoot the system. Leak detection is the core skill required by students working in the quantum, semiconductor, solar cell, and defense industries.

Estimated dollar amount: \$24,591.70

Rationale for method of procurement: Online search for systems meeting the technical requirements for the system. Vendors 2 and 3 had pricing listed online. A quote was requested from Vendor 1 both for price and to fully validate technical requirements.

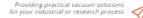
Contractor selection or rejection: Name each vendor and indicate whether selected or rejected. This will document and justify the decision for procurement.

- VENDOR #1: Edwards
 - Selected or Rejected: Selected
 - Amount of Quote: \$24,591.70 (quote attached in separate PDF file)
 - Justification: The Edwards system met all the technical requirements, includes a cart to hold the helium bottle, and is the lowest cost.
- VENDOR #2: HighVac Depot / Leybold
 - Selected or Rejected: Rejected
 - Amount of Quote: \$27,984.50 (pasted on page 2)
 - Justification: While the system meets the technical requirements, it is less portable (it will be used on multiple vacuum systems in the Quantum Learning Lab), and higher priced.
- VENDOR #3: Kurt Lesker
 - Selected or Rejected: Rejected
 - Amount of Quote: \$25,444.00
 - Justification: The Insight D system meets the technical requirements (the Insight N and W do not meet the contamination requirements). It is less portable than the Edwards system and slightly more expensive.

VENDOR #2









PRODUCTS ~

PUMP SERVICING

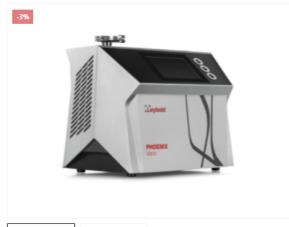
LEAK DETECTOR RENTALS

RESOURCES ~

FABRICATION

ABOUT

CONTACT







Leybold Phoenix Vario Leak Detector \$28,850.00 **\$27,984.50**

Leybold PHOENIX Vario

Note, does not include a backing pump. Click Here for backing pump options.

- The modular version with a much smaller housing
- Space-saving and portable, very light in weight
- Ideal for systems integration or mobile operations (on a cart)
- Direct electrical connection to the external backing pump possible
- Highest accuracy and reliability thanks to proven measurement system
- Fastest helium pumping speed allows most efficient measurements
- Consistency and convenience: Save all parameters and copy them to other PHOENIX leak detectors
- Innovative touchscreen with intuitive menu structure
- Handy and portable: very small dimensions and low weight
- Log in using Wi-Fi on your smart phone or tablet. No app or software needed!
- Easy internal and external data logging: no measured values are ever lost
- HDMI interface lets you check leaks from anywhere by adding external displays
- Find the perfect fit: three different models to better suit your needs

Single Phase, 115V 60Hz

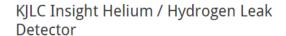
SKU: 250002V02

Categories: Helium Leak Detectors, Leak Detectors

Brand: Leybold









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Applications

- Research & Development
- Analytical Research and Instrumentation
- Vacuum Components
- Electronics
- » Automotive

Features

- High performance system
- , Exceptional reliability from proven measurement systems
- Fast helium pumping speed allows for quick, accurate measurements
- Intuitive and easy to use built-in digital display, with additional RS-232 and RS-485
- $_{\scriptscriptstyle 3}$ Compact design allows for flexibility and versatility in use for most environments
- , Ion source utilizes two long-life iridium filaments, yttrium-oxide coated with 3-year warranty

Specifications Table

| Leak Detector Model | Insight W | Insight D | Insight N |
|---------------------|-----------|-----------|-----------------|
| Backing Pump | Wet | Dry | No Backing Pump |

Ordering Table

| | Model \$ | Inlet Flange | Manual \$ | Voltage \$ | Part Number 🕴 | Price \$ | In Stock | Add To Cart | Accessories |
|---|--------------------------|----------------|-------------------|--------------------------|--------------------------|-----------------|----------------|-------------|-------------|
| ~ | Insight D | KF25 | 2 | 230V, 50 HZ | LDD-KJLC-50H € | \$25,444.00 | € | ¥ | |
| ^ | Insight D | KF25 | <u>}</u> | 115V, 60 HZ | LDD-KJLC-60L 8 | \$25,444.00 | Ø | * | ••• |
| | ription INSIGHT HELIU | JM LEAK DETECT | OR, DRY, 115V, 60 |) HZ, DIGITAL DISPLAY, 2 | .5 L/S HELIUM PUMPING, I | KF25 INLET FLAN | GE, RS-232 & R | S-485 | |
| ~ | Insight N | KF25 | <u> </u> | 110-250V, 50/60 HZ | LDN-KJLC-W 8 | \$22,051.00 | Ø | ¥ | ••• |
| ~ | Insight W | KF25 | <u>}.</u> | 230V, 50 HZ | LDW-KJLC-50H 8 | \$22,559.00 | = | ₩ | ••• |
| ~ | Insight W | KF25 | <u>}</u> | 115V, 60 HZ | LDW-KJLC-60L 8 | \$22,559.00 | 2 | ¥ | ••• |
| | | | | | | | | | |