



**BEP**eterson

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## **BEPeterson Research Vacuum Chamber supplied for Mount Mauna Kea installation.**

BEPeterson, Inc. was selected as the research vacuum chamber manufacturer for the SPIRou instrument.

The SPIRou instrument will be an infrared spectropolarimeter and velocimeter operating within a cryogenic environment at an elevation of 4200 meters. The SPIRou project is a scientific instrument involving a partnership of multiple countries with its final destination in Hawaii, USA at the Canada France Hawaii Telescope (CFHT) on Mount Mauna Kea.

BEPeterson Vacuum Chamber Manufacturer

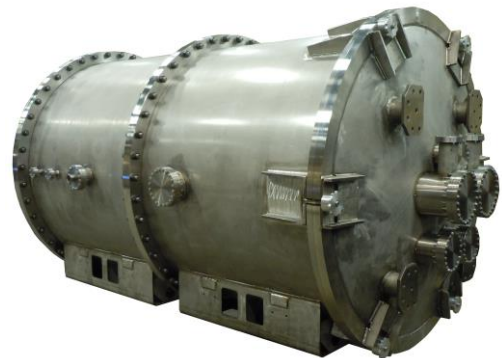
Vacuum Chamber Specifications: 61.4" ID x 118.43"

Full Vacuum – Max Sensitivity:  $5 \times 10^{-10}$  scc/sec

Calibrated Leak:  $1.4 \times 10^{-7}$  scc/He/sec

Material 304 SS

Oxygen Clean per Air Products 4WPI-SW70003



The vessel required a calibrated leak rate of  $1.4 \times 10^{-7}$  scc/He/sec. The test procedure isolated the vessel from the vacuum pump with a ball valve with the pump turned off. A gauge was monitored and vacuum readings were recorded.

BEPeterson manufactures vacuum chambers for a wide variety of scientific research and material processing industries.



QUALITY  
I.S. EN ISO 9001:2015  
NSAI Certified



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## About BEPeterson

Since 1935 BEPeterson has set the standard for custom metal fabrication of heavy-gauge metal parts and equipment. BEP has been relied on by our customers to provide complete engineering, design and project management of the most critical components. We are ISO 9001:2015 certified and ASME certified. Our 90,000 square foot facility with high ceiling bays is one of the largest in the Northeast.

BEPeterson is both a high volume contract manufacturer and a custom metal fabricator. BEP utilizes advanced manufacturing techniques and low cost material procurement to supply consistent and repeatable high quality products to our customers.

BEP manufactures Pressure Vessels, Tanks, ASME pressure vessels, ASME tanks, ASME code and non-code vacuum chambers, ASME vacuum furnaces, filter vessels & housings, skid assemblies, ducting and a variety of industrial general fabrications.

Buyers in the power and utilities, medical, chemical, environmental/filtration and industrial marketplaces choose to partner with BEPeterson because they value the fact that BEPeterson offers more than mere fabrication capabilities. BEPeterson can optimize our customer's requirements for cost, delivery and quality.