

# Smart Choices for Quality Control Sources



Eckert & Ziegler  
Isotope Products  
*Contributing to saving lives*

# About Eckert & Ziegler Isotope Products

Eckert & Ziegler offers a full range of sealed radiation sources for Medical Imaging and Industrial Process Control applications, as well as calibration sources, solutions and bulk radioisotopes.

Our commitment to new product development and custom source design are foundations of the company's daily focus and mission: **Contributing to saving lives.**

Global distribution is made possible through Eckert & Ziegler's expanding network and its logistical coordination means that products are delivered on time and as promised. With offices in Atlanta, Georgia; Burbank and Valencia, California; Braunschweig, Germany; and Prague, Czech Republic, our dedicated team stands ready to support customers and monitor system replenishment.

We are ready and prepared with world-class facilities including a total of 5000m<sup>2</sup> of laboratory space, NIST and DAkkS traceable calibration standards and a broad-scope materials license. The company is a ISO 2919 testing laboratory with leak and high-pressure test capabilities which enables EZIP to conduct special form and ISO 2919 capsule testing as required for Special Form Certificates and Sealed Source and Device Registries (SS&DRs).

Our guiding set of principles drives innovation, quality and world-class customer service.

## CONTINUOUS IMPROVEMENT

Innovation is key to Eckert & Ziegler's growth and its ability to manufacture high-quality products. We are driven to consistently improve operational performance and efficiency for its partners.

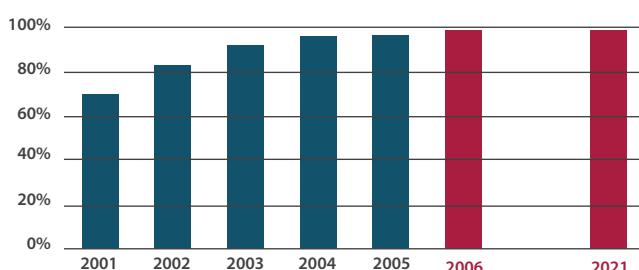
## QUALITY FOCUSED

Eckert & Ziegler has strict control of its manufacturing systems allowing the company the ability to maintain a high level of quality in its products. EZIP is certified to ISO 9001 and ISO 13485, and has a DAkkS accreditation to ISO 17025. In addition, our medical sources are compliant to the European Union Medical Device Directive / Regulation and registered with the FDA.

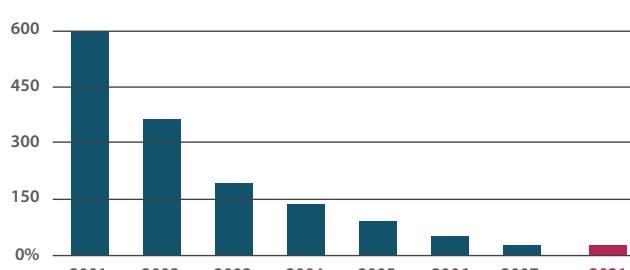
## WORLD-CLASS CUSTOMER SERVICE

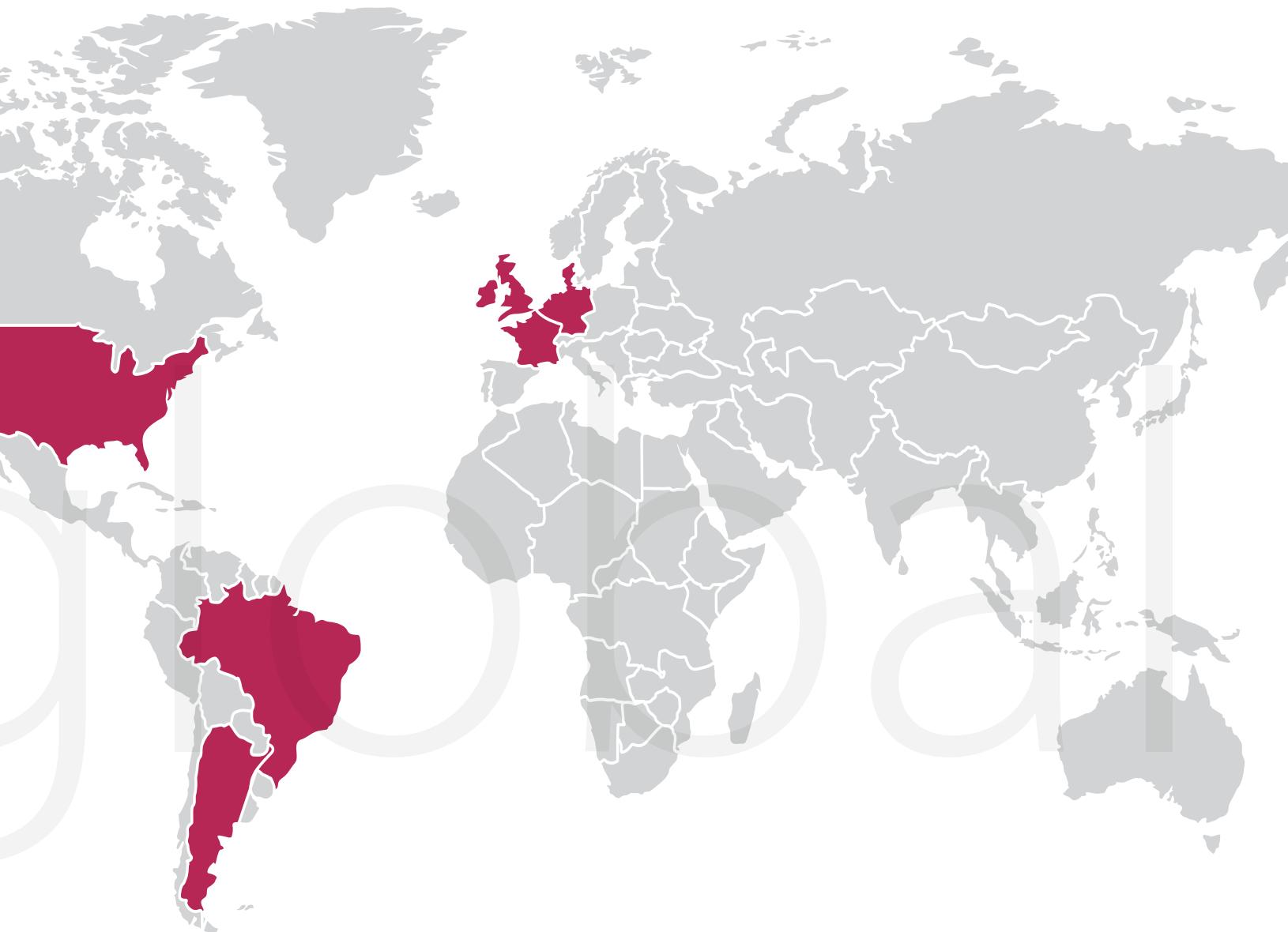
With a highly experienced and knowledgeable sales staff, Eckert & Ziegler is committed to producing quality sources and on-time delivery for its customers. Flexibility and responsiveness allow us to meet each and every customer commitment.

### ON-TIME DELIVERY RATE ABOVE 96% SINCE 2006



### RETURNS BELOW 0.15% SINCE 2010





# Celebrating 55+ Years as the Isotope Technology Leader

Eckert & Ziegler Isotope Products is proud to celebrate being in business over 55 years. Established in 1967, the company has grown to be a world leader and provider of isotope technology for medical, scientific, and industrial use. We focus on applications in cancer therapy, industrial radiometry, and nuclear imaging.

The first company of its kind with the most industry experience, Eckert & Ziegler has maintained its position as a world leader through key acquisitions, technological advances, and new product development. Through critical innovation, high-quality products, and world-class customer service, we stay focused on its mission to serve a key role in saving lives.



# Guaranteed Tolerances that Exceed Expectations

Uniformity is essential to flood source performance, and our unique, patented manufacturing methods and strict quality control combine to give you the highest quality sources, without hot spots, gradients, or artifacts. We employ the most conservative methods of uniformity calculation with no artificial smoothing, and we provide you full, numerical results with every source.



In fact, we are so committed to providing you with the best possible flood source that we are proud to introduce new, stricter uniformity standards. The American National Standards Institute (ANSI N42.27 – 1999) standard for flood source uniformity is a coefficient of variation (CV) of 1%. Good enough for many, but not for us. We now guarantee that all flood sources will have a CV of 0.8% or lower – that's 20% better. And that's our promise to you: the power of patented ProKem™ Technology, and the highest commitment to quality.

## FeatherLite™ is Still Lighter Than Any Other Source

Our patented ProKem™ Technology that created a unique, radioactive matrix as thin as a sheet of paper, resulted in FeatherLite™ being the thinnest and original lightweight source. Today that distinction continues.

FeatherLite™ is still 20% lighter than any other source – without sacrificing the protection of an inactive border for safer handling and optional handles for even lower hand dose – because all other sources embed radioactive material in epoxy.



FeatherLite™  
Eckert & Ziegler

# More Smart ProKem™ Technology Choices for Transparent and Flexible Flood Sources



## C-Thru™

C-Thru's™ source holder is made of transparent, durable plastic. The radioactive area is clearly visible, enabling the C-Thru™ source to be easily positioned on the camera head. And, ProKem™ Technology means a CV of 0.8% or lower guaranteed.

## Perflexion™

The Perflexion™ flood source reduces bulk and weight with its unique, flexible design and compact, lightweight shield. A CV of 0.8% or lower also guaranteed.



# ProKase for Highly Portable Flood Source Storage and Handling

The ProKase™ Flood Source Storage Case by Eckert & Ziegler is a highly portable flood source storage and handling device designed to be more mobile, more stable and easier to use than other cases. Its unique flared base and swivel wheels makes the lead lined case less likely to tip as you maneuver through tight spaces. Regardless of your facility's layout and tight spaces, ProKase makes quality control safer, easier and more efficient. The ProKase is designed to accommodate C-Thru and FeatherLite Flood Sources.



**Wide Clamshell Opening**  
for Easy Access



**Ergonomic Top Handle**  
for Easier Rolling



**Pull Handle**  
to Exit Confined Spaces



**Unique Flared Base**  
for Improved Stability



**Wheel Brake**  
for Added Safety

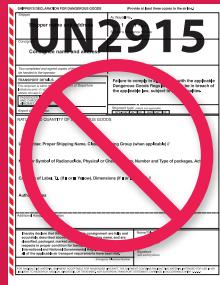


**Four Swivel Wheels**  
for Greater Mobility

More mobile. More stable. More access.

# Depleted Flood Sources? No More UN2915 Needed! \*

Save time and money with our “hassle-free” Pb Shipper. With a lead-lined sleeve covering all six sides, our Pb Shipper is designed to qualify as a UN2910 “Excepted Package” when the surface reading for your Co-57 flood source is < 0.5m Rem/hr.



Do you find yourself holding on to your depleted flood sources longer than you want?

Pb Shipper is the convenient and efficient alternative for returning and receiving your flood sources.

\* The trained shipper who is offering the package for shipment is responsible for determining the proper shipping name of the package. If the packaged source exceeds 0.5m Rem/hr at the surface of the package, you will need to ship the source as a Type A UN2915 package – shipping papers and emergency information documentation will need to be included with the UN2915 shipment.

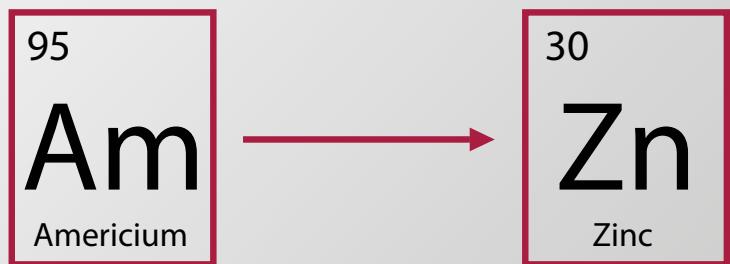
## Perflexion Flood Source Shield and Transport Case

Lightweight flood source shield and transport case make storage safe and easy.

# The Quality You Demand at a Price You Can Afford

There are many reasons why we're among the world's leading suppliers of radioactive sources for medical imaging: the broadest range of isotopes, (the only provider of all sources - Americium to Zinc), in-house Research and Development, engineering, manufacturing for the best quality and flexibility, as well as the supply chain control for on-time delivery.

With sales and support in 60 countries and operating sites in the United States and Europe, we offer the local level of service that global customers demand, as well as the broad range of registrations and certifications you need including ISO, CE Mark (MDD / MDR), FDA, and DAkkS.



## Specialized SPECT Sources

- Leader in Specialized Attenuation Correction and Quality Control sources for all SPECT Systems
- Featuring sources for Siemens Symbia Auto QC and Philips Brightview XCT Systems
- Most sources stocked and available to ship within five business days



## Multimodal Sources

- Widest range of PET/CT and SPECT/CT sources available
- Clinical MRI visibility available with our MMS10 source
- Only fiducial marker available with visibility in all three modalities
- Custom designs available



# PET, PET/CT, and PET/MR Sources

Featuring sources for all major OEMs.



## QC Phantoms for Discovery IQ PET/CT

Designed exclusively for the Discovery IQ PET/CT system, ensure you get the most from the GE system by checking it with custom-designed imaging phantoms. The easy-to-use Phantom provides accurate calibration of your PET detector and increases quality control. The imaging phantom is designed to be held in place during use by standard source holders provided with scanning equipment. No mechanical maintenance is required.

We are the ONLY GE-approved supplier for this product.

## Phantom Shield

Eckert & Zeigler's Phantom Shield is designed to easily and conveniently store your Ge-68 phantoms. The pull handle and large wheelbase make the shield easy to move and portable. The Phantom Shield is available for shields up to 30 cm tall and is currently only available for shipment within the continental United States.



# Phantoms and Rods

Featuring sources for United Imaging Systems. Phantom and transmission rod sources are available for the uMI 550. Custom phantom and transmission rods sources available for the uMI 780 full body PET/CT.

UNITED  
IMAGING



**SPECTRUM**  
DYNAMICS MEDICAL

# Co-57 Calibration Sources

Featuring sources for Spectrum Dynamics Systems. Co-57 QC Rods available for D-Spect and Veriton cameras.



# Solid Lesion Phantoms NEMA NU2 and More!

We can convert any fillable phantom to a solid epoxy source!

- No more filling with FDG
- NIST-traceable activity accuracy of 5% or better
- Long lived Ge-68 allows use of the same phantom for a year or more!
- Standard configurations (NEMA NU2-2012 or -2018), or customize your phantom
- Customize activity concentrations, or have multiple activity concentrations in one phantom
- Lesions can be any size
- We can make lesions in nonstandard shapes – even asymmetric or “tumor-like”
- Hot lesions can be embedded directly in the background – no inactive walls between!\*
- Custom shielded storage cases available



\*U.S. Patent 6,831,269 B2

## More Smart Choices from Eckert & Ziegler Isotope Products

Together with Eckert & Ziegler's global network of production sites, its financial resources, and expertise in the production and marketing of radioisotopes, TecnoNuclear is ideally positioned to serve as an entry ticket into the global SPECT market. Eckert & Ziegler plans to bring the technology developed in Argentina to patients anywhere in the world making it possible to support the regional healthcare establishments in world-class research, development, and patient care.

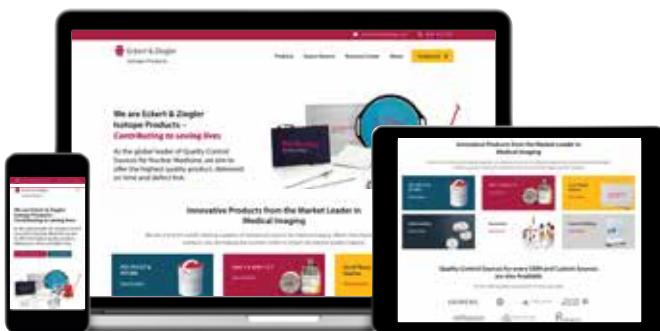


TECNONUCLEAR

is now



Eckert & Ziegler  
TecnoNuclear



## Our modern and responsive website is here to help.

Our up-to-date website offers important product information through user-friendly navigation and is easy access for enhanced customer support. There are simple-to-follow videos and guidelines on returning and transporting sources and useful information, such as: FAQs, how long to use your source, access to calculators and more product literature.

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