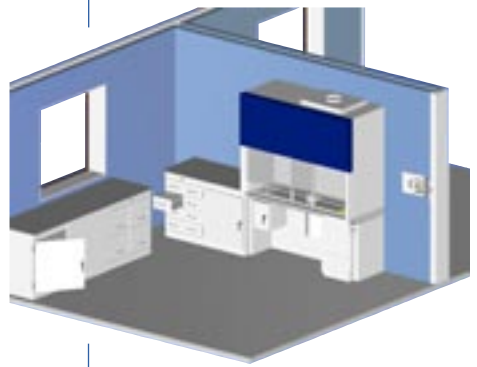




Hotlab Solutions

• The right balance



Veenstra Instruments

Realising a new radiochemistry laboratory (hot lab) today, means a process of finding the right balance between many different and sometimes even conflicting internal and external factors. A difficult process that needs professional partners to avoid disappointments afterwards..... It's a given fact that a budget can only be spend once!

Hot Lab Solutions

The right balance

First off all your hot lab needs to provide a working environment that supports the daily routines in the best possible way. One can not design a hot lab behind a drawer board! Understanding the different routines and processes is essential in realising the optimal, logical workflow and supporting that workflow with the right design and products.

Nuclear medicine is not a static discipline, so how to create a working environment that is flexible in adapting new methods and new routines? Not only today but also tomorrow! The daily routine has to meet a continuous increasing amount of regulations. It is in your hot lab where regulations on both a pharmaceutical and a radio-protection level meet.

We all know the standards: GMP, GLP, ALARA, ISO etc. but how do we translate these regulations into practical solutions? What safety levels are mandatory? What if current standards increase? What instrumentation will provide

the flexibility to meet future standards in quality control or radiation monitoring?

Then off course we can all make plans but in real life we often have to face all sorts of restrictions. Like space available, constructions that can not be changed or a budget that is always less then hoped for. These restrictions need to be encountered by the right level of creativity in customising and tailoring the solution to your specific situation. This demands for a partner that will really think along with you.

The right Partner

Based on many years of experience, Veenstra Instruments understands the complexity of balancing all these factors in the process of hot lab realisation. Our experience is being reflected in our products but even more in our approach to provide you with the right professional support during the whole process. Our company philosophy is based on partnership with our customers.



• **“Based on many years of experience, Veenstra Instruments understands the complexity of balancing in the process of hot lab realisation.”**

• It is our strategy to offer you a complete solution

It is our strategy to offer you a complete solution, ranging from safety cabinets and lead lined furniture through all sorts of instrumentation. Since all these products are developed and manufactured by ourselves, we do not only offer them as separate items but also tailored and integrated into practical modules that really do support your laboratory workflow. That is where your advantage starts!

Given the increasing role of regulation, we even go one step further with our modern hot lab management software: a complete range of measuring, monitoring and quality control instrumentation can be integrated into one single database to support your administration with the right reports at the right time. Not only today but also

tomorrow! Our hot lab management software is also the result of our own product development. So we can not only guarantee you the right level of support but we can also guarantee you a continuous process to adapt our software to the latest regulations. That's what we mean with partnership and again that's where you benefit the advantage!

Since nuclear medicine is so unique due to the combination of pharmaceutical and radiation protection regulations, we believe in the strength of a single provider. A single partner offers you the advantage of a single source of responsibility for a complete solution that can be tailored to your specific needs. And even more important, a solution that afterwards will be supported,

updated and serviced by the same people that created it. People that regard themselves as your strategic partner!

The right Solution

As a single provider, Veenstra Instruments can offer you a total solution with the right support at the right time during the whole process. Our professional staff will discuss your specific needs and situation with you and from there we will help you to realise a first design. Given today's regulation, this design will often incorporate a microbiological safety bench that is starting to become mandatory for radio-pharmaceutical production. Based on our strive towards practical and flexible solutions, our standard safety bench is an open (ease of use, ergonomic and therefore less exposure

to radiation) class IIA laminar airflow (LAF) bench that has been specially designed to work with radioisotopes. It offers the highest safety for the user, the product and the environment. Depending on air quality available in the room we also alternatively offer a completely closed bench (isolator) with a range of air qualities.

By integrating some of our other products in our safety benches, we offer you the possibility to carry out all manipulations for the preparation of radio-pharmaceuticals and patient doses under sterile and safe conditions. This means that the elution of the generator, the operation and read-out of the dose calibrator and the (temporary) storage of waste is all done inside the laminar flow bench under conditions following the GMP directives. Off course your hot lab layout can be completed with a wide range of safes, storage and waste modules that we make in our own facilities, according to the latest standards. These



standard or tailor made modules can be integrated in custom made (stainless steel) workbenches to complete your laboratory in the optimal way. Once the basic set-up and layout is decided, we can support you with all relevant drawings that are necessary in your process of realisation. Our mission to become the right strategic partner for you, is translated in our strategy to offer a complete range of products for the nuclear medicine department. Products we develop, engineer and service ourselves so that we can guarantee you the best possible support in the process

of realising and maintaining a complete and total solution.

Veenstra Instruments offers the following products and product-ranges for the realisation of your hot lab:

- Laminar flow benches
- Fume hoods
- Generator safes
- Pass through safes
- Supplier & delivery safes
- Waste modules
- Storage modules
- Lead lined refrigerators
- Work benches and cabinets
- Hot lab management system
- Dose calibrators
- Quality control systems
- Well Counter systems
- Monitoring systems
- Dosimetry systems
- Personnel protection accessories (Tc-99, FDG)
- Lead barriers (with or without lead-glass)
- Lead brick enclosures

On all products separate brochures and specifications are available.



The right Quality

In our opinion quality is not just something we talk about. Quality is something we can prove and something you can experience during the many years that our products and solutions will last. We believe that the prove of quality is in the right details:

- Drawers that have shielded sides so that they also offer protection when they're open and not just when they're closed.
- A dual generator safe that will shield the other generator when one is in use, so that the exposure for your personnel is less.
- A generator safe that will close automatically in case of a power failure.
- Special made hinges so that the lead lined doors can be opened also after many years of use.
- Modules that can be locked to avoid unnecessary risk and exposure.
- Modules with dimensions and shielding that are useful for a real life hot lab environment.
- Pass through safes with interlock to maintain the right level of pressure in your room.
- A safety cabinet design that is triggered by ease of use and also (just as important

given the GMP standards) easy to clean

These are just some examples where we know that we simply proof quality. A firm belief that is strengthened by the fact that we often see copies of our on-going product innovations in many other products after our introduction to the market. But quality is not something in products alone. Our level of understanding of your daily business, our mission to offer you the best possible support and our high level of service is much harder to copy. We are proud that our oak leaf logo is recognised by a still growing international population of customers, as a mark that is synonym for the right solution and the right quality.

The right Offer

Since it is our well proven experience that realising a hot lab is a process of balancing, we feel that the most important offer we can make is our specific experience and know how during your process of realising a Hot lab. We have a commercial staff that has been trained in nuclear medicine departments, to understand your daily routines. Our technical consultants are well trained in the newest

regulations on radio protection, control and pharmaceutical production. And since we are a single provider, our consultants are constantly working with our own engineers for product innovation and development. That's why we know where standard solutions can meet your requirements and where customisation will do the job. Our staff is ready to support you from the designing phase to the actual installation and even beyond in maintaining your hot lab at the highest level. We would like to stretch again that our company philosophy is based on partnering with our customers.

Please feel free to contact us or one of our distributors to discuss your specific needs.



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