



Overcoming the obstacles

Philips BioShield™ Infectious Disease Imaging for research

PHILIPS

Gain insight and acceler

Medical imaging is fast becoming an indispensable tool in infectious disease research. Not only can it lead to new knowledge and accelerate breakthroughs, it can provide the tools necessary for translational techniques and goals required in today's research environment.

But how do you bring infectious disease imaging to your BSL (biosafety level) environment without risking cross infection? Or harming your imaging systems with decontamination agents? The Philips BioShield™ family of modified imaging and containment solutions allows you to image highly infectious research subjects while helping to protect staff, equipment, and other subjects.

BioShield expands your ability to study the host-pathogen relationship by using MR, PET/CT, SPECT/CT, CT, and X-ray for infectious disease research. So you can overcome the obstacles to medical imaging and take your explorations to new heights.

Why Philips BioShield for research?

Philips is the leader in bio-contained medical imaging for research in BSL-3 and BSL-4 research environments. We originally developed BioShield Infectious Disease Imaging to support research by the National Institute of Allergy and Infectious Diseases (NIAID), part of the National Institutes of Health (NIH). Now these advanced diagnostic imaging solutions are available to help you:

- Harvest an expanded data set including unique, new information and more frequent measurements.
- Use imaging to reach a new level in translational research.
- Observe disease progression and host response to intervention in vivo, obtaining longitudinal, functional and anatomically localized information.
- Speed research discoveries from your lab to clinical settings.
- Potentially reduce the number of research subjects needed to obtain relevant data.
- Image a wide array of animal models.

The smart choice: Philips

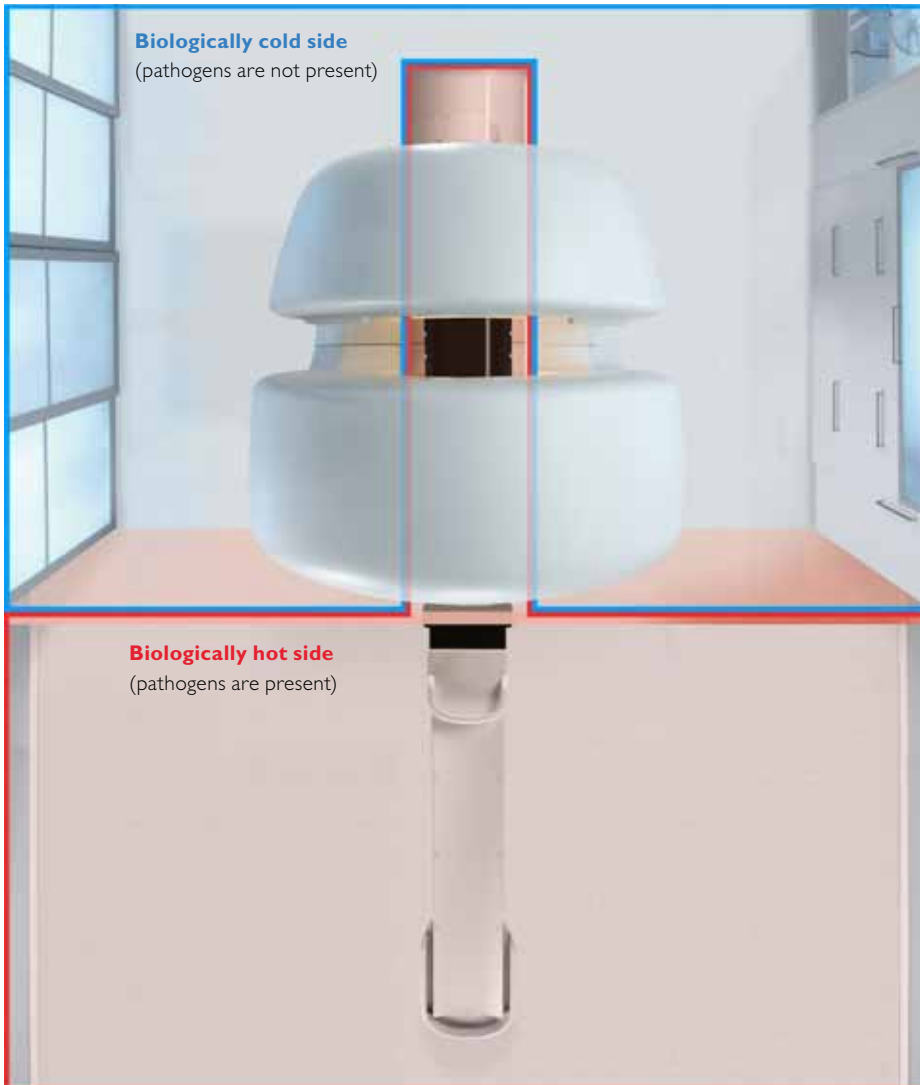
Philips BioShield Infectious Disease Imaging offers maximum protection for your equipment, staff, and subjects. It is compatible with conventional decontamination routines with many accepted chemicals and gases. With BioShield, the sensitive imaging equipment is simple to access for service by highly trained and experienced Philips personnel. Philips can also help plan the biocontainment of your current clinical imaging system so that it is suitable for research.



ate discovery

How it works

The Philips BioShield solution makes it possible to use medical imaging in BSL-3 and BSL-4 research environments.



The 7 safeguards of BioShield

- Hot/cold separation
- Containment tube extends barrier into imaging system
- Decontamination compatible and “easy clean” hot side components
- Electronics eliminated from hot side
- Hot side electrical signals through hermetic “patch” panel
- Smooth, BSL/PPE-friendly design for all hot side components
- Imaging adapted for containment to retain full image quality and applications

Safety by design

The BioShield imaging system concept features a biologically hot and cold side. The containment tube extends the hot side of the imaging suite into the bore of the imaging gantry. The tube interfaces with a barrier wall that protects your equipment from decontamination chemicals and gases, while allowing the infected patient to be imaged.

Get off to a fast start

Philips draws on its unique experience in bio-contained medical imaging for BSL research environments to offer you a complete package of support services. These services include everything from site layout and design to laboratory workflow, staff training and ongoing maintenance and repair.

Learn more

To learn more about Philips BioShield™ Infectious Disease Imaging for your BSL research environment, please visit www.philips.com/bioshield.



Imaging modality flexibility

Philips BioShield solutions are available for MR, PET/CT, SPECT/CT, CT, and X-ray, helping to ensure that the research team has full access to all imaging modalities for infectious disease research.

BioShield Infectious Disease Imaging was developed to support research by the National Institute of Allergy and Infectious Diseases (NIAID), part of the National Institutes of Health (NIH).

For more information, visit www.philips.com/bioshield



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Philips Healthcare is part of Royal Philips Electronics

www.philips.com/healthcare
healthcare@philips.com
fax: +31 40 27 64 887

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Philips Healthcare
Global Information Center
P.O. Box 1286
5602 BG Eindhoven
The Netherlands