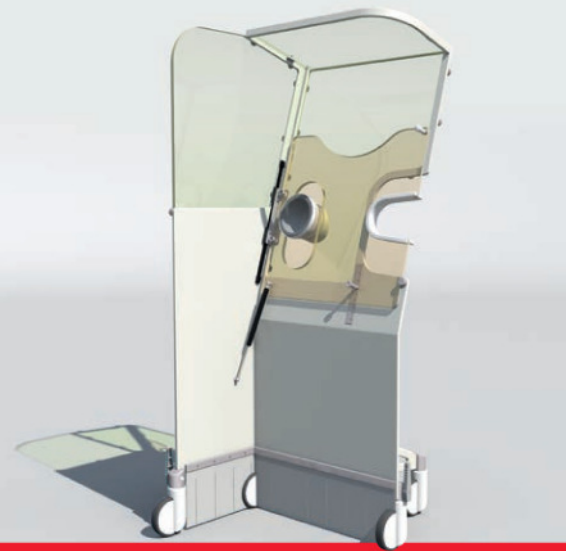


PAX SHIELDED SCREEN / **CARDIOLOGY**
MOBILE RADIATION PROTECTION CABIN

CATHPAX® AF

THE ULTIMATE PROTECTION AGAINST X-RAYS



Ablation free of lead

- ▶ Complete radiation protection
- ▶ No lead aprons, no tiredness
- ▶ Eliminate orthopaedic risks
- ▶ Greater efficiency, more cases
- ▶ No change of working practices
- ▶ Comfort and mobility

Cathpax® AF is part of a whole range of radiation protection cabins dedicated to procedures under **fluoroscopy**.

Regularly improved following users' requests, Cathpax® are 100% radiation protective and obviate the need and discomfort to wear lead aprons.



INNOVATE TOGETHER TO PROTECT LIFE

LEMER PAX
I N N O V A T I V E
SINCE 1970

CATHPAX® AF

THE ULTIMATE PROTECTION AGAINST X-RAYS

There has been a recent increase in the number of electrophysiology (EP) procedures, and new evidence which has identified that Physicians are being exposed to dangerous levels of radiation during these complex ablation procedures and lengthy AF ablations. In addition, the wearing of lead aprons has caused significant back problems for many of these EP physicians. The Cathpax® (radiation protection cabin) provides a safe and comfortable solution, without compromising long-established working practices or putting a strain on the hospital's budget.



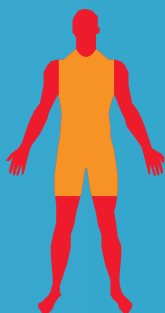
DOSIMETRIC BOARD

	Attenuation factor	
	With Cathpax	Without Cathpax
Dose measured for one AF ablations	0,404 µSv	517,6 µSv

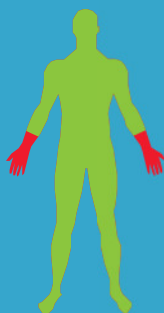
Result of a study made by Professor B. Strohmmer in Salzburger Landeskliniken Salzburger in Austria / 2008

Radiation Protection Comparison

■ Zero protection
 ■ Low protection
 ■ Full protection



Standard Lead Apron



CATHPAX

**Prof. Michel Haïssaguerre / Hôpital Cardiologique
Haut-Lévêque / University Bordeaux 2 /
Institut hospitalo-universitaire LIRYC /
Bordeaux-Pessac, France**



Use of a novel radiation protection cabin (RPC) during catheter ablation procedures obviates the need for lead protective apparel:

"...With use of the Cathpax®, catheter ablation can be performed comfortably with insignificant exposure rendering lead apparel superfluous..."

**Dr. Bernhard Strohmer / Paracelsus Private
Medical University / Saizburger Landeskliniken
Dept. of Cardiology / Austria**



"... The use of the Cathpax® cabin turned out to be one of the most important achievements in my daily EP practice as far as radioprotection is concerned. The cabin is no hindrance at all for handling the catheters and the view to the monitors. Moreover, I think there is a positive effect on the outcome of the procedure if you are able to stay physically and mentally relaxed particularly during long lasting or complex ablations..."

**Prof. Kazutaka Aonuma /
Division of Cardiovascular Medicine /
Tsukuba University Hospital / Japan**



"... Cathpax® has become one of the most necessary devices in my lab, especially when performing complicated cases such as atrial fibrillation ablations and substrate-guided ventricular tachycardia ablations, where a longer procedure time is usually required. From the whole body protection point of view, Cathpax® provides enhanced protection by covering the entire body (from top of the head down to the toes), compared to the use of conventional lead aprons during catheter ablation procedures. White blood cell count are normalized and my neck pain improved when using Cathpax® compared to the use of the heavy lead aprons..."

**Dr. Francis Marchlinski /
Hospital of the University of Pennsylvania
Cardiology / USA**



"...This innovation has been too long in the coming. It is a must for long ablation procedures..."

**Dr Mark E. Josephson / Chief of Cardiology /
Beth Israel Deaconess Medical Center /
Boston / Massachusetts**



"... I would like to express my strong endorsement of the Cathpax®. Prior to using it my radiation exposure was so high from doing all the AF procedures in my hospital, that radiation safety wanted me to stop performing procedures. The Cathpax® has totally changed everything. Radiation safety tested it and was astonished at the virtual abolition of radiation exposure. I use it on all my AF procedure and any procedure for which I might receive to high a radiation dose..."

**Prof. Dr. Hein Heidbüchel / Full Professor, Cardiol-
ogy - Electrophysiology / Director of the Clinical
EP Laboratory / University Hospital Gasthuisberg
/ University of Leuven / Belgium.**



"... The cabin has changed my life as an electro physiologist: it takes away all my concerns that I might harm my own health and the future of my dependants while taking care of patients. The absolute freedom from any radiation makes that I can fully enjoy doing my job, even when it requires longer procedure durations and/or ablations in obese patients. This of course does not negate our mandate to lower radiation risks for the patients themselves. I can do all ablation procedures, and all aspects of these procedures (like transseptal punctures or exchange of such sheaths over long guidewires), from within the cabin. All my co-workers are obliged to work with the cabin ; the height can easily be adjusted. Use of the cabin required however initial adaptation of the wheel base for each of our cath labs (which has been done by our local distributor, but required even some welding), so that it can be aligned fully with the cath table and allows unobstructed access to the fluoroscopy pedals..."

**Dr. Nidal Asaad / Head of cardiac electro-
physiology / Department of cardiology and
cardiovascular surgery / Hamad General
Hospital / Doha- Qatar**



"... The Cathpax® cabin is a major breakthrough in the area of radiation safety for the busy practising cardiac electrophysiologist. Its part of almost all my cases in the cardiac electrophysiology lab. I found it easy to use with excellent visibility, catheter stability and most important whole body radiation protection without using lead apron..."

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SINCE 1970

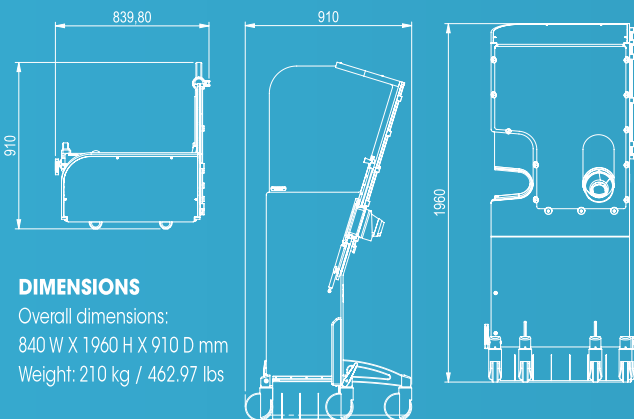
CATHPAX® AF

THE ULTIMATE PROTECTION AGAINST X-RAYS

The Cathkit®, disposable sterile drape kit for Cathpax®, is very quick and easy to place (less than 2 minutes for one person). It guarantees a total asepsis during the procedure.



Disposable sterile drape kit



DIMENSIONS

Overall dimensions:
840 W X 1960 H X 910 D mm
Weight: 210 kg / 462.97 lbs

Specifications

- **Extra quick and easy to place** disposable sterile drape kits
- **Easily radiological** decontaminable coating
- **2 mm lead equivalent** leaded glass
- **2 mm lead shielded** cabin frame
- **Removable, decontaminable shielded** armhole ports
- **Height-adjustable** arm holes
- **150 mm diameter wheels** for easy manoeuvrability
- **Width** 840 mm / 33.07 inches
- **Height** 1960 mm / 77.17 inches
- **Depth** 910 mm / 35.83 inches
- **Weight** 210 kg / 462,97 lbs
- **Average user** size from 1.55 m / 5.0853 feet to 1.90 m / 6.2336 feet

Références

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5. **Goldstein JA, Balter S, Cowley M, Hodgson J, Klein LW** Occupational hazards of interventional cardiologists: prevalence of orthopedic health problems in contemporary practice. *Catheter Cardiovasc Interv.* 2004;63:407- 411.
6. **Elrod J.** Reducing radiation exposure in the EP lab; Interview with Dr. Roderick Tung. *EP Lab Digest.* 2010;10; June 02, 2010.

FOUNDED IN 1970, LEMER PAX DESIGNS AND PRODUCES RADIATION PROTECTION EQUIPMENT FOR THE FIELDS OF MEDICINE, RESEARCH, INDUSTRY AND CIVIL SECURITY. 40 YEARS EXPERIENCE MEANS THAT THE COMPANY HAS BECOME ONE OF THE WORLD LEADERS IN ITS FIELD AND IS PRESENT IN MORE THAN 15 COUNTRIES, INCLUDING A SUBSIDIARY IN THE US.

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