

## Introduction: Sterilflo System®

Krueger has been actively engaged in the study, design, and research of hospital operating room air distribution systems since 1967. At Krueger, we are concerned with obtaining the highest quality systems representative of the latest technology. Emerging surgical techniques demand that we continue viewing the hospital operating room air distribution system as an evolving research project; as more information is gathered from which to establish design criteria, Krueger will develop better systems at lower cost.

One proven method of providing a sterile environment in the operating room is the Sterilflo System®.

The Sterilflo System® is designed to adapt to the ceiling of the modern operating room. Unlike a straight laminar solution, which requires an unbroken array of diffusers, the Sterilflo System® utilizes specially designed laminar panels in conjunction with perimeter panels that produce an air curtain of a known profile. This permits discrete locations of the laminar panels, making it possible to place surgical lights, gas columns, intravenous tracks, and other items in logical locations between the perimeter and center panels. Thus, the Sterilflo System® adapts to the ceiling plan rather than adapting the ceiling plan to the system.

Every aspect of the Sterilflo System® has been thoroughly tested, including air flows ranging from 15 to 35 air changes per hour and reactions of various metals to germicides used to disinfect hospital operating rooms. Most importantly, Sterilflo System® installations have been tested during actual surgical procedures. The suggested test procedure published by the Committee on Operating Room Environment of the American College of Surgeons is the reference point used to determine the effectiveness of the Sterilflo System®. All tests conducted resulted in Class I Microbiological Air Cleanliness, as defined by the Committee of Operating Room Environment, American College of Surgeons Bulletin of January 1976. This is the cleanest standard defined and Krueger obtained these results, not through lab mock-ups, but during actual surgical procedures, ensuring a system of unparalleled effectiveness.

Krueger's dedicated research is backed by more than 35 years of experience. This has been achieved through on site engineering staff attendance during system startups, where we are able to gain further first-hand knowledge of how these critical components are being used in the modern operating room.

The Sterilflo System® has been installed in more than 1,000 operating rooms in leading hospitals throughout the United States, Australia, Korea, and the Middle East. These systems are providing protection to patients undergoing the most critical surgery, including total joint transplants and cardiac procedures, as well as general surgery. It is Krueger's intention to continue studying particulate control in the hospital operating room and provide the latest equipment available for use in this critical environment.



Sterilflo System®

### MODEL

Sterilflo System® - Operating Room Particulate Control,  
Stainless Steel Construction

### FEATURES

- 100% type 304 stainless steel.
- Radius corners.
- Custom layouts.
- Design specific drawings.
- Tested during actual surgical procedures.
- 1/4 turn fasteners for cleaning.
- Class 1 Microbiologic Clean Air certification.
- Factory certifications (optional).