Trusted Human Care
Our Philosophy

Our specialism brings you added value
Air Fluidisation - the Principle

A patient is kept floating on a mass of micro-spherical glass beads which are pressurised by a conditioned airflow. The resulting support medium can be characterized as a “dry fluid”.

The surface of the glass beads are separated from the patient by a generously proportioned filter sheet that allows the patient to “float” freely.

The principle creates careful spreading and support of each patient’s bodyweight, which results in minimum interface pressure, below capillary level.

Clean Environment

The composition of the glass beads (high pH value) in combination with the conditioned airflow rapidly reduces the bacterial growth in the care system.

Due to the constant airflow which is maintained at low relative humidity and accurate temperature, all moisture coming from wound exudation, blood, urine, faeces, perspiration, etc will be desiccated, encapsulated and inactivated (1).

“Innovation in sheet metal shaping has led to a tub where even large patients can lay down comfortably with also their elbows in the fluidising mass.”

Mr. Harry van Opdorp - CEO BOZ Group
Bergen op Zoom - The Netherlands

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SANDS, the upgraded original version

SANDS - Proven Care
SANDS is the improved version of our original air fluidised care system that has been in production since 1994 and now is progressively updated to meet the current demands. It has a proven track record in numerous hospitals and nursing homes around the world. Over the years it has supported many people's health and it is still appreciated for its reliability. SANDS will offer basic specifications against an efficient price level.

Basic Specifications

- Uniform fluidisation
- Accurate temperature control
- Active humidity control
- Adjustable fluidisation pressure
- Floor adjustment system for evenly distributed fluidisation
- Control system with touch screen panel for easy and intuitive operation
- Integrated decontamination (optional)
- Height adjustable frame (optional)

“I am so glad the exchange of a filter sheet and the rubber rim have been improved.”

Mrs. Ilse van Haren - Head Nurse PICU University Medical Centre Utrecht - The Netherlands
PEARLS offers the latest innovations and practical benefits

**PEARLS - Innovative Care**
Reliability is a priority of our care systems and the basis for creation of PEARLS, the new innovative air fluidised care system.
A modern design and many respected extra features have been incorporated in this new model.
Evaluation and improvement have brought our reliability claim to an even higher level.
PEARLS will offer the best practice in the theme of air fluidisation care systems from now on.

**Innovations further to SANDS**

**Patient related innovations:**
- Improved fluidisation at lower airflow
- Smart shape of the tub allowing bigger patients to fit in
- Active moisture control for clean environment
- Electrical controlled backrest (optional)

**Staff related innovations:**
- Soft rubber rim for easy exchange of filter sheet
- "CARE" mode in foot switch, increasing the airflow for easy handling of the patient
- LED night illumination

**Management related innovations:**
- Maintenance interval indicated by software
- Automated test cycle at installation
- Basin outlet for easy emptying of glass beads
- Data logging system for process control

“The improved technology of fluidisation in PEARLS limits the airflow needed, which has a lower noise level and less energy consumption as a result.”

*Mr. Tore Thoresen - Technical Engineer*

*Haukeland University Hospital, Bergen - Norway*
The Future

Help us to further evolve our specialism