

NEW GENERATION

ValueShelter

**THE FULLY AIR-CONDITIONED SECURE STORAGE UNIT WITH
HIGH-GRADE PROTECTION AGAINST:
FIRE, FUMES, WATER, RADIATION, INTRUSION,
THEFT, SABOTAGE AND VANDALISM**
PAT.PENDING. EP 11159135.0

The fully air-conditioned secure storage unit, with standard integrated fire protection slide (Pat. pend.), which has the same protection potential, as walls, floors and ceilings and in the event of an MCA (maximum credible accident) closes automatically with a spring return actuator without electricity.



Self-sufficiently run ValueShelters in a secure tunnel, with special protection against: **radioactive radiation.**



ValueShelter for the **pharmaceutical industry**, in particular for the secure storage of high-hazardous compounds, which require a constant climate.



ValueShelter for the **IT sector**, in particular for the secure operation of high-availability server units.



ValueShelter for the **art world**, in particular for the secure storage of valuable objects, which require a constant climate.

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The fully air-conditioned secure storage unit with multi-applicable climate modules with an optimal cooling capacity of up to 10 kW per module:

«**AC-Module**» Direct heat exchanger with environmentally-neutral cooling agent for connection to an external compressor/condenser exterior unit.

«**CW-Module**» Air-to-water heat exchanger for connection to a central cold water system with heat recovery.

«**CW/FC-Module**» Air-to-water heat exchanger for connection to a cold water system with energy-saving «free-cooling control», which switches off costly refrigerating compressors at an outdoor temperature below +15° Celsius.

«**LC-Module**» Liquid-to-air heat exchanger for direct CPU cooling for liquid-cooled server units (e.g. Blade-Servers) with heat recovery connection couplings for thermal output for a heat accumulator or a heat pump system for heating purposes or for the preparation of warm water.

In the event of an MCA (maximum credible accident) the interior is protected by a protection device for ventilation ducts (Pat. pending) which, **without electricity**, closes against harmful external influence, such as refrigerant vapour from the air-conditioning system, corrosive fumes, fire, water and radiation.



Energy-efficient:

In comparison with conventional computing centres just a very small area of space is cooled and circulated, all this without loss due to unnecessary heat transmission caused by wide windows, walls, ceilings and floors.



Energy recovery:

Thermal energy is transmitted via a plate heat exchanger to external loads, such as boilers and/or heat pumps for heating purposes.



Energy-saving:

Through the use of the outside temperature, costly refrigerating compressors are turned off in the «free-cooling mode».



High-availability and secure:

Autonomous climate modules attached to both sides ensure the necessary cooling redundancy. Fire protection slides, with the same protection potential, as walls, ceilings and floors, and in the event of an MCA, isolate the IT equipment against external danger.