

# UGT PE-HD CONTAINERIZED LYSIMETER STATIONS

(European patent: 1153293)

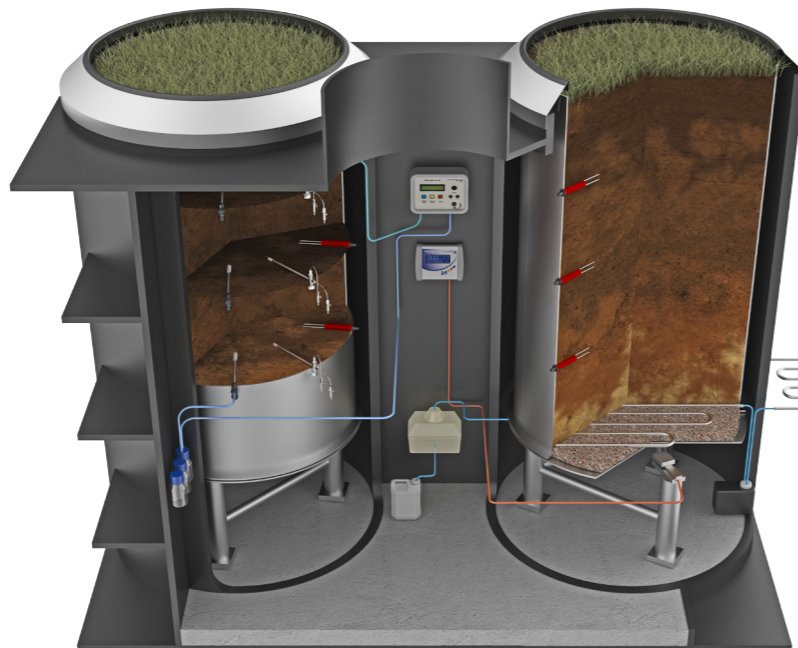
## 1-, 2- und 4-fold-PE-HD-containerized lysimeter stations

Our lysimeter stations in the patented containment design are available as single or multiple stations are available for you.

### Dimensions

Height:	1.5 m to 4.0 m
Length:	2.5 m to 3.5 m
Width:	2.5 m to 3.5 m
Material:	PE-HD 80/100
Weight of the station:	500 to 1700 kg

According to your requirements the UGT GmbH also builds lysimeter stations made of concrete. Contact us with your requirements.



## Our lysimeter services

- ✓ Workshops
- ✓ Design and installation of monitoring systems
- ✓ Lysimeter excavation
- ✓ Lysimeter soil retrieving
- ✓ Operation of lysimeter experiments
- ✓ Determination of soil hydrological specific values
- ✓ Data logging and evaluation
- ✓ Support and maintenance of instruments and plants
- ✓ Guarantees, maintenance and repair

## Your project. Our solution.

Just get in touch with us if you have an idea, a research project or other need. Together we will find a suitable solution for you!

**We look forward to your call or e-mail.**

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# LYSIMETER

Take a useful look  
into the soil

Water balance studies of  
ecosystems

Simulation of climate scenarios

Customized solutions



# LYSIMETER

in all sizes and shapes

You can use our lysimeter technology for studies for water balance investigations of ecosystems, the evapotranspiration of the site or the water or the water demand of irrigated plants.

And with the unique UGT-developed mineral soil sampling technology, soil columns can be collected with high precision and undisturbed soil structure without the use of heavy machinery be extracted.

## Lysimeters are used to:

- ✓ monitor the movement, the storage and the degradation of contaminants in the soil, the soil water and soil gas
- ✓ monitor the correlation between the soil, environmental influences and plant parameters such as root growth or harvest
- ✓ determine the water balance under natural or controlled conditions

## Possible fields of application

Installation and automation of environmental measurement points in the field of:

- ✓ Mining
- ✓ Forestry
- ✓ Landfills
- ✓ Agriculture
- ✓ Water management
- ✓ Biospheres & moors
- ✓ City environment



## Lysimeters are our specialty



UGT offers you custom-made lysimeters and not off-the-shelf products. With the experience of more than 500 lysimeters over 30 years, we know that no two lysimeters are exactly alike.

We focus on solutions that allow users to do exactly what they were designed to do. The focus is on high-quality system modules that can be integrated into the lysimeter platform.

The cost-effective and standardized Ready-To-Go Lysimeter product line enables us to offer high-quality solutions even for smaller budgets as well.

# LYSIMETER STATIONS

Our variety of types – as diverse as nature



Ready-To-Go Lysimeter

Measurement technology in the smallest space: Our small and inexpensive Ready-To-Go Lysimeters are perfectly suited for field studies and can be set up without special tools or personnel.



EcoLab flex

Simulate different land use types and how specific ecosystems respond to different climate conditions in our mini-labs.



Laboratory lysimeter

Laboratory lysimeters are small weighable lysimeter stations that we have designed specifically for laboratory use (indoor). For controlled experiments and accurate results!



Slope lysimeter

This type of lysimeter has been specially developed for use on slopes and can be adapted precisely to the slope of the terrain.



Green roof lysimeter

Green roofs are technological vegetation systems to bind particulate matter dust, to improve the climatisation and precipitation absorption of buildings.



Urban lysimeter

The urban lysimeter provides insight into the processes involved in optimizing water supply to urban trees.



Peatland lysimeter

Use it to investigate the effects of rewetting peatland soils on the mobilization of phosphorus in the soil and on surface water quality.



Dry stress lysimeter

With the dry stress lysimeter can be used to simulate various future scenarios of climate change can be simulated.



Lysimeter stations with basement

On request we also erect large lysimeter stations with concrete basements.