

# FTB Zero

Flexible Thermal Blanket



## FTB Zero - Flexible Thermal Blanket Zero

FTB Zero is a cold insulation jacket that insulates all types of elements in plant with cold production cycles.



COLD

|  |   |
|--|---|
| ✓ Reduces condensation and the related risk of corrosion | ✓ Protects against cracks caused by ice   |
| ✓ Enables energy saving and CO2 emission reduction       | ✓ Prevents failures caused by freezing  |
| ✓ Sub-zero temperatures resistant                        | ✓ Reduces the risk of cold burn   |
| ✓ Anti-freeze  | ✓ Lightweight and easy to install on different shapes and even in narrow spaces |

## Why choose FTB Zero

Teknovis3's removable Flexible Thermal Blanket Zero cold insulation jacket provides real energy savings and reduced CO2 emissions.



### Sustainable

FTB Zero supports the reduction of greenhouse gas emissions into the environment.



### Simplicity

FTB Zero is equipped with simple and fast locking systems that allow quick installation, operability, easy maintenance and inspection of the insulated components.



### Saving

FTB Zero provides excellent energy savings and reduces maintenance and procurement costs.



### Corrosion

FTB Zero reduces the risk of corrosion due to condensation.



### Anti-freeze

FTB Zero reduces the risk of frost cracking on the system elements on which it is installed.

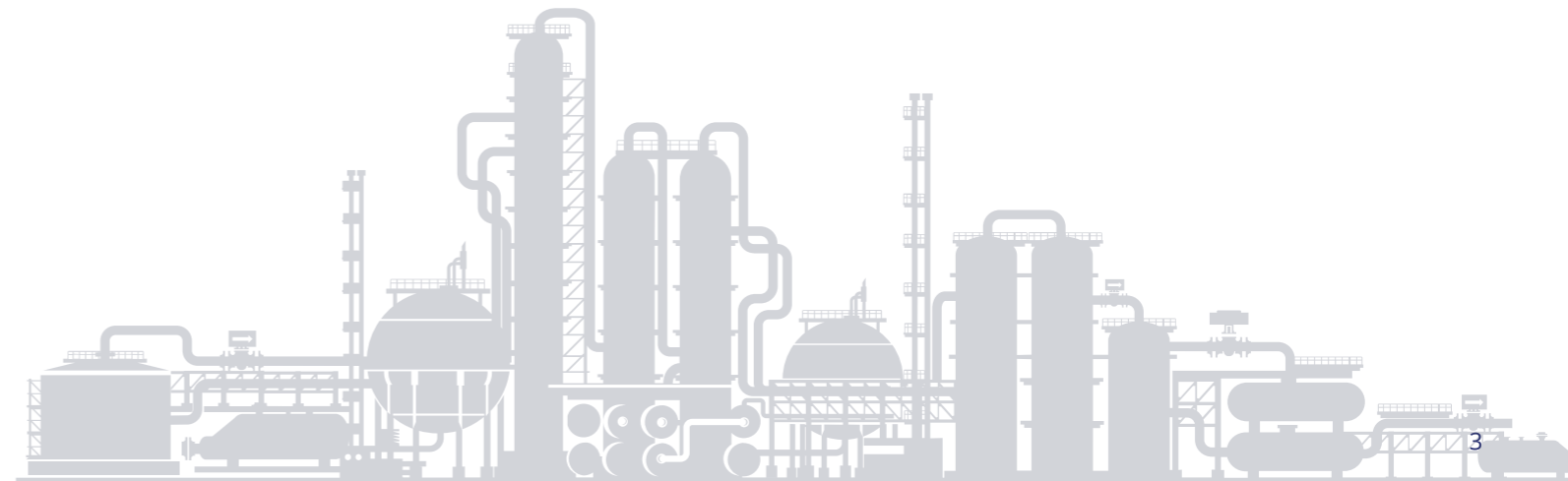


### Condensation

It helps to reduce the condensation formation on the system elements on which it is installed.

## Further added value with FTB Zero from Teknovis3

Optionally, FTB Zero can be ordered with the integration of self-regulating heating cables to allowing specific temperatures to be maintained, according to the user's requirements. The heating cables can be ATEX compliant on request.



## FTT for cold or low temperature cycles

Industrial plants that use cold or refrigerated water, glycol or other fluids are defined as low temperature cycle plants. Industrial insulation, using Teknovis3 solutions, is essential to ensure energy savings and CO2 emissions reduction and to help achieving environmental sustainability goals in production processes.

### Applications



COLD

- 30° C      +20° C

✓ Cold water

✓ Refrigerated water

✓ Glycol

✓ Other fluids



## Measure energy savings with Gaia E-Tracker System

Installing FTB Zero with Gaia E-Tracker System, the innovative IoT technology patented by Teknovis3, it is possible to monitor and calculate real-time energy savings and CO2 emissions reduction.

Thanks to the constant measurement of the quality of the insulation level of industrial plants, Gaia is able to automatically calculate energy savings and the reduction of CO2 emissions, while monitoring the thermal load of a plant's fluids.



## The advantages of Gaia e-Tracker System

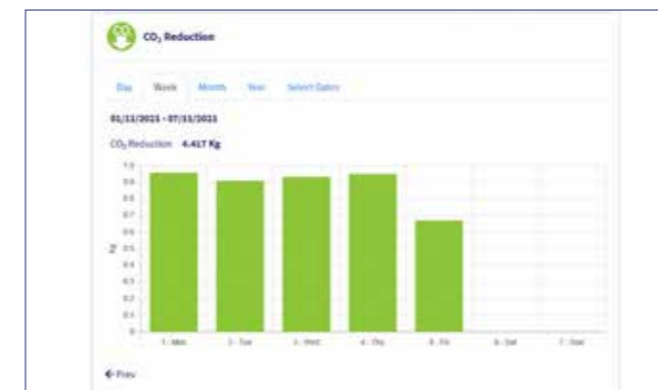
Thanks to its high level of technological innovation and ease of use, Gaia offers numerous advantages to companies that want to reduce CO2 emissions and to measure the level of energy savings.

- Automatic calculation of energy savings and CO2 emission reduction
- Data available directly on the Gaia device display and WebApp
- Useful tool for implementing the continuous improvement methodology in production processes
- Continuous thermal loads control
- Unlimited data storage capacity
- Easy installation
- Constant monitoring 24/24 h
- Usable on different types of insulations
- Data available for export from the WebApp

## With the Gaia WebApp, data are translated into values

Developed by the Teknovis3 R&D Department, Gaia devices are being installed at different points in a plant and transmit data to the cloud.

An advanced algorithm processes the data and displays the results on a WebApp.



**CO2 reduction:** CO2 reduction trend



**Thermal measurement:** Temperature trend inside and outside the insulation



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