

TECNIUM[®]



TECNIUM

PROCESS

**DESIGN ENGINEERING
INSTALLATION
OF GAS TREATMENT**

REMOVING ODOURS WITH BIOTRICKLING PROCESS BIO-TR

The **waste treatment plants, WWTP**, and many different **industrial processes** such as paper mills, food industry, pharmaceuticals, etc. often generate emissions containing a high odour charge. Those emissions are usually made of complex mixtures of different organic and/or inorganic compounds. They usually contain **sulphur** derivatives (hydrogen sulphide, methyl mercaptans, dimethyl sulphide, etc), nitrogen derivatives (**ammonia**, amines, etc.) and a wide range of **organic compounds (VOC's)**.

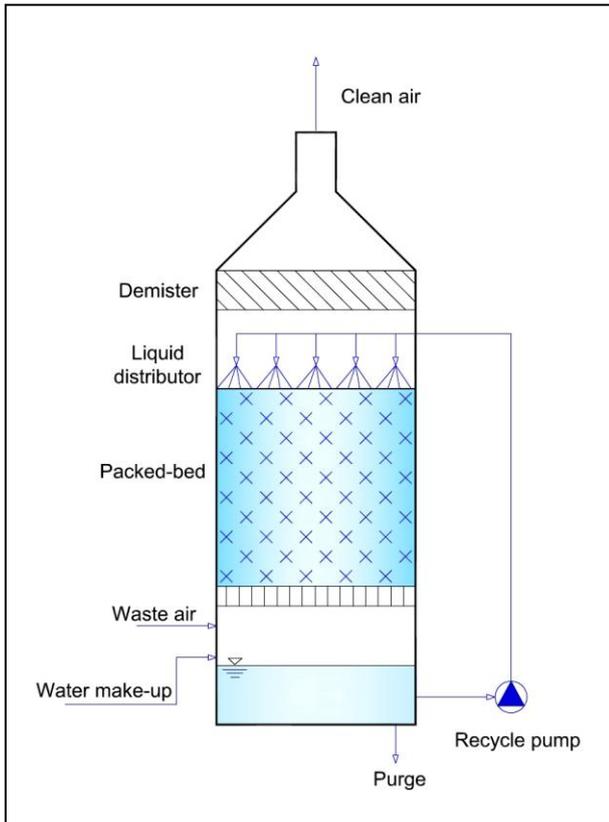


The **traditional technologies** used to remove odours involve a high **reagent's consumption** and problems with other compounds. Those technologies also **generate effluents** as well.

TECNIUM PROCESS developed a **new biologic system** that enables a high efficiency in removing those compounds with a minimal installation and exploitation cost.



The high efficiency of **BIO-TR** enables the **reconversion** of your scrubber installation by **removing the reagents consumption** and so removing the chemical products storage in your facilities.



MAIN CHARACTERISTICS AND ADVANTAGES:

- ➔ **Reduced physical space**
- ➔ **High efficiency**
- ➔ **No chemicals consumption**
- ➔ **Long duration of the packing**
- ➔ **Energy saving cost**, comparing with other systems to remove odours.
- ➔ **Minimal exploitation costs**
- ➔ **Clean. It has no generation or additional costs on effluents treatments** (they can be introduced in the process of the WWTP)
- ➔ This system can be totally **automated**
- ➔ **Good adaptation of the biomass at the changes of gas concentration** to be treated.
- ➔ This technology respects the environment.

TECNIUM PROCESS is constantly researching in cooperation with universities, and this fact allowed us to develop and to patent new and efficient treatments processes.

TECNIUM PROCESS has many applications and references all over the world concerning gas treatment, purification and filtration with biological or chemical units using dry or wet way.

Our scrubber, venturis, multiventuris, filter bags, degassers, biological filters, VU units, thermal oxidizer, etc. solved many problems in sectors like Fine Chemistry, Pharmaceutics, Fertilizers, Waste Treatment, Water Treatment, Surface Treatments, odour removal, etc.

TECNIUM PROCESS's technicians team is ready to help you in order to design a personalized solution to your problems.

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