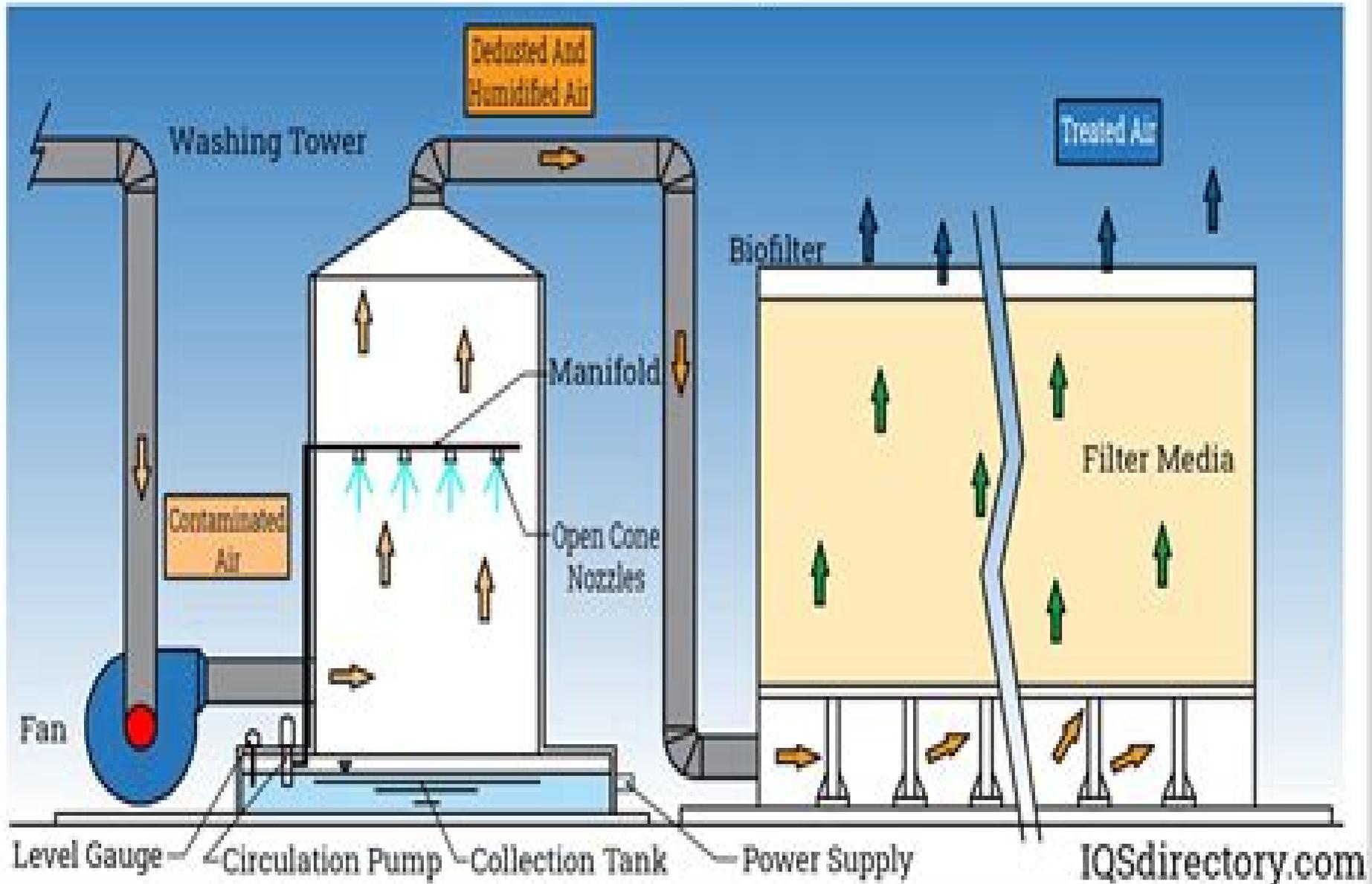


# Biofiltration System



# Biofiltration For Air Pollution Control

**Hans-Joachim Jördening, Josef Winter**



## **Biofiltration For Air Pollution Control:**

**Biofiltration for Air Pollution Control** Joseph S. Deviny, Marc A. Deshusses, Todd Stephen Webster, 2017-11-22 The number one environmental threat to public health air pollution remains a pressing problem made even more complicated by the massive quantity and diversity of air pollution sources Biofiltration technology using micro organisms growing on porous media is being recognized as one of the most advantageous means to convert pollutants to harmless products Done properly biofiltration works at a reasonable cost utilizing inexpensive components without requiring fuel or generating hazardous by products Firmly established in Europe biofiltration techniques are being increasingly applied in North America Biofiltration for Air Pollution Control offers the necessary knowledge to do it right Indoor Air Pollution Control Using a Soil Biofilter Daisy Badilla, 2024-04-15 Academic Paper from the year 2008 in the subject Physics Biophysics language English abstract Biofiltration may be used to control indoor air pollution In biofiltration contaminants in a gas stream are degraded by microorganisms and converted to carbon dioxide water and biomass In this study the CO<sub>2</sub> production and the elimination capacity EC of toluene at inlet concentrations between 20 and 80 ppm were investigated using three biofilters operated separately with soil as bed material Results showed soil with its rich microflora taken to full advantage without inoculants and additional nutrients biodegraded toluene at removal rates comparable to those in other studies at higher concentrations The quantity of CO<sub>2</sub> produced correlates with the quantity of toluene removed which implies effective biodegradation and suggests stable long term operation at these low concentrations Though the concentrations used in this study are not typical toluene indoor concentrations ppb results show biofiltration may be effective for indoor air pollution control with proper design considering biomass growth or biofilm structure concentration and gas flow rate **Proceedings, 1996**

**Conference on Biofiltration (an Air Pollution Control Technology)** F. Edward Reynolds, 1996 **1998 USC-TRG**

**Conference on Biofiltration** Reynolds Group, University of Southern California, 1998\* Biofilter for the purification of air contaminated with triethylamine (TEA) Venu Gopal, A.G Rao, M.P. Durga Prasad, 2014-12-24 Master s Thesis from the year 2012 in the subject Chemistry Bio chemistry course Master Degree language English abstract Modern air pollution control technologies have emerged over the past 40 years to mitigate emission problems in industrial facilities and thereby comply with environmental regulations A variety of technologies have been developed to meet the needs of both the industries and the regulatory agencies keeping in view the techno economics Some air pollutants like H<sub>2</sub>S NH<sub>3</sub> and VOC s are emitted in the industry causes odour and this not only causes occupational health but also damages public image of the company Engineered biofiltration is a sustainable technology for VOC and odor control Bio filtration is a method of pollution control in which pollutants are biologically degraded using microorganisms Generally the energy demands for biofiltration are one fourth to one tenth that of physico chemical destructive technologies Biofilters are being developed and effectively used for a wide variety of industries including wood products paint manufacturing petroleum remediation etc Biofilters are cost

effective and straightforward options for pollutants capable of biodegrading reasonably easily Triethylamine TEA is a Volatile organic compound widely used as a catalyst for polymerization reactions and a solvent and corrosion inhibitor in industry and it is also used as an intermediate in the production of various chemicals including pesticides It is necessary to remove TEA from water and gas in the environment TEA gas phase bio treatment has emerged as an effective and inexpensive alternative to conventional physicochemical treatment systems The technology is still under development in terms of economics equipment process kinetics and operational skills and different layouts and flow trains are being proposed including biofiltration biotrickling filter and bioscrubber In the present work studies are being carried out on biofilter contaminated with TEA The contaminated gas is passed through a packed bed where TEA compound is absorbed into the biofilm in which diffusion and aerobic biodegradation occur simultaneously in a complex set of physical chemical and biological interactions Therefore selection of suitable microbial consortia and biofilter configuration is very important from commercial perspective

**Biofiltration as a Viable Alternative for Air Pollution Control at Department of Defense Surface Coating Facilities** David M. Hudock,2007 **Proceedings, 1995 Conference on Biofiltration (an Air Pollution Control Technology)** F. Edward Reynolds,Douglas S. Hodge,1995 **Proceedings, 1998 USC-TRG Conference on Biofiltration (an Air Pollution Control Technology)** F. Edward Reynolds,1998 *1996 Conference on Biofiltration* University of Southern California. Environmental Engineering Program,Reynolds Group,University of Southern California. Department of Civil Engineering,1996\* *White Paper : Biofiltration for Air Pollution Control* Institute of Clean Air Companies. Biofiltration White Paper Committee,1993 [Biofiltration as an Air Pollution Control Technology for VOC Emissions](#) Molly J. Rihn,1995

**An Innovative Role of Biofiltration in Wastewater Treatment Plants (WWTPs)** Maulin P. Shah,Susana Rodriguez-Couto,Jayanta Kumar Biswas,2021-12-01 Many physico chemical and operational factors influence the performance treatment costs and long term stability of biofilters for the treatment of wastewater An Innovative Role of Biofiltration in Wastewater Treatment Plants focuses on identifying the factors that affect biofiltration such as the hydraulic retention time of the biofiltration system the type and characteristics of the filter and the attached biomass explains their influence and provides guidelines on how to control these factors to optimize better operation with respect to pollutant control present in wastewater treatment plants WWTPs The fundamental basis of treatment in biofilters is the action of pollutant degrading microorganisms and consequently the book also discusses in depth about the microbial ecology of biofiltration In addition it explores the applications of biofiltration including the removal of emerging pollutants Describes the microbial ecology of biofiltration Includes modeling of biofiltration Describes the designing of biofilters start up and monitoring Discusses the mechanism of biofiltration Describes the controlling and operational factors of biofiltration

*Comprehensive Biotechnology* ,2011-08-26 The second edition of Comprehensive Biotechnology Six Volume Set continues the tradition of the first inclusive work on this dynamic field with up to date and essential entries on the principles and

practice of biotechnology The integration of the latest relevant science and industry practice with fundamental biotechnology concepts is presented with entries from internationally recognized world leaders in their given fields With two volumes covering basic fundamentals and four volumes of applications from environmental biotechnology and safety to medical biotechnology and healthcare this work serves the needs of newcomers as well as established experts combining the latest relevant science and industry practice in a manageable format It is a multi authored work written by experts and vetted by a prestigious advisory board and group of volume editors who are biotechnology innovators and educators with international influence All six volumes are published at the same time not as a series this is not a conventional encyclopedia but a symbiotic integration of brief articles on established topics and longer chapters on new emerging areas Hyperlinks provide sources of extensive additional related information material authored and edited by world renown experts in all aspects of the broad multidisciplinary field of biotechnology Scope and nature of the work are vetted by a prestigious International Advisory Board including three Nobel laureates Each article carries a glossary and a professional summary of the authors indicating their appropriate credentials An extensive index for the entire publication gives a complete list of the many topics treated in the increasingly expanding field

**Applications of Cell Immobilisation Biotechnology** Viktor Nedovic, Ronnie Willaert, 2005-10-07 Cell immobilisation biotechnology is a multidisciplinary area shown to have an important impact on many scientific subdisciplines including biomedicine pharmacology cosmetology food and agricultural sciences beverage production industrial waste treatment analytical applications biologics production Cell Immobilisation Biotechnology is an outcome of the editors intention to collate the extensive and widespread information on fundamental aspects and applications of immobilisation encapsulation biotechnology into a comprehensive reference work and to provide an overview of the most recent results and developments in this domain Cell Immobilisation Biotechnology is divided into the two book volumes FOBI 8A and FOBI 8B The FOBI 8A volume Fundamentals of Cell Immobilisation Biotechnology is dedicated to fundamental aspects of cell immobilisation while the present volume FOBI 8B Applications of Cell Immobilisation Biotechnology deals with diverse applications of this technology

*Environmental Biotechnology* Hans-Joachim Jördening, Josef Winter, 2006-03-06 A deeper insight into the complex processes involved in this field covering the biological chemical and engineering fundamentals needed to further develop effective methodologies The book devotes detailed chapters to each of the four main areas of environmental biotechnology wastewater treatment soil treatment solid waste treatment and waste gas treatment dealing with both the microbiological and process engineering aspects The result is the combined knowledge contained in the extremely successful volumes 11a through 11c of the Biotechnology series in a handy and compact form

**From Biofiltration to Promising Options in Gaseous Fluxes Biotreatment** Gabriela Soreanu, Éric Dumont, 2020-04-03 From Biofiltration to Promising Options in Gaseous Fluxes Biotreatment Recent Developments New Trends Advances and Opportunities provides an overview on the biological tools used for the treatment of the gaseous fluxes with emphasis on

traditional and perspective options opening new horizons for research and implementation in practice It is known that air pollution is an emergent global issue and a priority within the international environmental programs Moreover technologies based on biological methods are significantly contributing to the sustainable development concept Thus this book provides tools for solving air pollution issues in a sustainable manner These issues can be solved at different levels e g end of pipe gaseous streams indoor outdoor air closed environments which can be approached by the different biotechniques presented in the book from classical biofiltration techniques part 1 to phytotreatment and microalgae based techniques part 2 Although all options have their particularities that make them special for certain applications a special attention is drawn to the potential of the last one which offers multiple possibilities for biomass valorization Scientists from worldwide with relevant experience in their field have been contributed to the development of this book Presents the main biotechnological aspects applied for gas purification focusing on process understanding limitations and capability in different applications Promotes a sustainable future of the biofiltration process by enhancing their performance together with the simultaneously economic and environmental impacts Implements new aspects of scientific research and development in the field *Toluene and Ethyl Acetate Biodegradation by Peat Biofilters: Respirometric and Microbial Community Evolution Monitoring* Javier Álvarez Hornos,2008-03-05 Air streams discharged from industrial sources contain volatile organic compounds VOCs for which environmental regulations are being increasingly restrictive Biofiltration is an environmentally friendly technology for treatment of waste gases containin **1995 Conference on Biofiltration** University of Southern California. Environmental Engineering Program,University of Southern California. Department of Civil Engineering,Reynolds Group,1995\*

**Influence of Water Content, Concentration, and Nutrient Addition on the Biofiltration of Toluene for Air Pollution Mitigation Using Soil Biofilters with Water Content Control** Daisy B. Badilla,2024-02-20 Doctoral Thesis Dissertation from the year 2011 in the subject Environmental Sciences grade Passed University of the Philippines course Doctor of Philosophy in Environmental Engineering language English abstract In this study the influence of water content on biofiltration performance was investigated A biofilter reactor with water content control through changes in matric potential in a suction cell was used to treat toluene contaminated air with soil as the filter bed medium Results suggest the soil water content should be controlled at about 96% dry weight or a matric potential of 10 cm H<sub>2</sub>O The maximum elimination capacity in this study appears to be a restricted to a narrow water content and this narrow range impacts on the operation of full scale biofilters as traditional techniques for water content control would make maintaining this range difficult Biofiltration which is also sometimes referred to as bio oxidation is a method of air pollution control where contaminants in a gas stream are metabolized by microorganisms and converted to water carbon dioxide and biomass Biofiltration involves biological chemical and physical processes It is often preferred over other air pollution control technologies since it does not produce secondary pollutants and does not involve expensive maintenance and operating costs However one of its disadvantages is the difficulty

in controlling water content A water retention curve of the soil was generated by plotting water content versus matric potential with data obtained using the suction cell Two additional factors concentration and nutrient addition were investigated using two other soil biofilters Improved biofiltration performance was observed at higher toluene concentrations High toluene concentrations may be advisable during start up as it converts microorganisms that do not thrive on toluene into nutrients for desired degraders inducing growth and improved performance but would have to be controlled to avoid excessive growth In the membrane biofilter the large pores in the biofilm contributed to a possible enhancement of pollutant and oxygen mass transfer Nutrient addition improved the volumetric removal rate of toluene which implies that available nutrient has been limited Nitrogen was identified as limiting the biomass growth The production of carbon dioxide confirmed effective biodegradation of toluene in the soil biofilter This study contributes to existing knowledge relevant conclusions and recommendations that may guide biofiltration operation broaden concepts or direct future studies and it considers treatment of indoor air pollution as a particular area of application

**2002 USC-TRG Conference on Biofiltration** Reynolds Group, University of Southern California, 2002

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