



Alfa Laval PANX range of decanters for crude palm oil

High-performance three-phase decanters centrifuges



Applications

Alfa Laval developed the PANX range of three-phase decanter centrifuges especially for processing crude palm oil, focusing on efficient, reliable separation of liquid, dry solids (cake) and oil for maximum oil recovery with minimum oil losses. The PANX range therefore includes decanters suitable for every size of palm oil mill, from 30 to approximately 90 tons of fresh fruit bunches (FFB) per hour, and for a variety of crude palm oil applications. These include:

- Combined clarification and purification of pressed oil as part of the Alfa Laval D3 PRO all-in-one process (no need for settling tanks and dilution water). This provides high oil recovery with low water consumption and effluent level.
- Sludge treatment after separation of diluted palm oil in settling tanks, using the three-phase units as an alternative to a nozzle separator. The decanter efficiently separates the slurry into oil, water and solid cake phases.
- Oil recovery from empty fruit bunch liquor (EFBL) immediately after pressing. The high-quality palm oil recovered after separation and removal of impurities with a decanter can be mixed with the freshly pressed oil.

Benefits

The design of Alfa Laval PANX decanter centrifuges provides multiple operating benefits:

- More cost-effective separation of palm oil
- Up to 30% savings on power consumption as a result of an innovative liquid outlet design
- Improved solids dryness, ensuring lower costs for drying or disposal
- Increased capacity within the same space (or less), for a smaller investment.

Design

The Alfa Laval PANX decanter centrifuge range is designed to ensure easy access, good reliability and low maintenance costs. The rotating assembly is held at both ends by bearings mounted on a welded box beam frame. It is enclosed in a casing comprising a semi-cylindrical hood and a bottom section welded to the frame. The cover is hinged to ensure easy access. The bottom section incorporates the solids discharge funnel and the liquid outlet.

Westfalia Decanter Manual

N Colangelo



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Decanter Centrifuge Handbook A. Records, K Sutherland, 2001-03-02 Scope of Publication A reference work for process designers and users of decanters this book aims to bridge the information gap in this field that between academic theory promoted in student textbooks and case study data in manufacturers sales literature Design It includes information on design and specification preparing the reader to select and correctly size equipment Purchase As a design or project engineer working with vendors to make final equipment selection this work provides the readers with the full facts before they start talking to product vendors Supply In an environment of industry consolidation the handbook allows you to track suppliers old and new providing a basis on which users can find the new relevant company for the parts service he she wishes to purchase Operation Once an equipment purchase is made the user needs to be made aware of how to optimally operate decanters The Decanter Centrifuge Handbook covers relevant process operating issues such as instrumentation and control and the use of flocculents *Handbook of Methods and Instrumentation in Separation Science*, 2009-11-11 Handbook of Methods and Instrumentation in Separation Science Volume 1 provides concise overviews and summaries of the main methods used for separation It is based on the Encyclopedia of Separation Science The handbook focuses on the principles of methods and instrumentation It provides general concepts concerning the subject matter it does not present specific procedures This volume discusses the separation processes including affinity methods analytical ultracentrifugation centrifugation chromatography and use of decanter centrifuge and dye Each methodology is defined and compared with other separation processes It also provides specific techniques principles and theories concerning each process Furthermore the handbook presents the applications benefits and validation of the processes described in this book This handbook is an excellent reference for biomedical researchers environmental and production chemists flavor and fragrance technologists food and beverage technologists academic and industrial librarians and nuclear researchers Students and novices will also find this handbook useful for practice and learning One stop source for information on separation methods General overviews for quick orientation Ease of use for finding results fast Expert coverage of major separation methods Coverage of techniques for all sizes of samples pico level to kilo level *Functional Food Product Development* Jim Smith, Edward Charter, 2010-06-28 According to an August 2009 report from PricewaterhouseCoopers the United States market for functional foods in 2007 was US 27 billion Forecasts of growth range from between 8 5% and 20% per year or about four times that of the food industry in general Global demand by 2013 is expected to be about 100 billion With this demand for new products comes a demand for product development and supporting literature for that purpose There is a wealth of research and development in this area and great scope for commercialization and this book provides a much needed review of important opportunities for new products written by authors with in depth knowledge of as yet unfulfilled health related needs This book addresses functional food product development from a number of perspectives the process itself health research that may provide opportunities

idea creation regulation and processes and ingredients It also features case studies that illustrate real product development and commercialization histories Written for food scientists and technologists this book presents practical information for use in functional food product development It is an essential resource for practitioners in functional food companies and food technology centres and is also of interest to researchers and students of food science Key features A comprehensive review of the latest opportunities in this commercially important sector of the food industry Includes chapters highlighting functional food opportunities for specific health issues such as obesity immunity brain health heart disease and the development of children New technologies of relevance to functional foods are also addressed such as emulsion delivery systems and nanoencapsulation Includes chapters on product design and the use of functional ingredients such as antioxidants probiotics and prebiotics as well as functional ingredients from plant and dairy sources Specific examples of taking products to market are provided in the form of case studies e g microalgae functional ingredients Part of the Functional Food Science and Technology book series Series Editor Fereidoon Shahidi **Moody's International Manual**, 1997 **Introduction to Biomass Energy Conversions** Sergio Capareda, 2023-11-07 Introduction to Biomass Energy Conversions explores biomass energy conversions and characterization using practical examples and real world scenarios It begins with biomass resource estimation and extends to commercialization pathways for economical biomass conversion into high value materials chemicals and fuels With extended discussions of new sustainability issues in biofuels production such as carbon capture and sequestration the second edition has been updated with carbon footprint work life cycle analysis the growing circular economy and newer research directions of biomass resources such as graphene production from biochar This book covers thermo chemical conversion processes including torrefaction pyrolysis gasification and advanced gasification biomass liquefaction and combustion This book is intended for senior undergraduate students taking Renewable Energy Conversions Bio Energy Biomass Energy Introduction to Biofuels and Sustainability Engineering courses This book also features end of chapter problems exercises and case studies with a Solutions Manual available for instructors The eBook version includes the following digital enhancements Audio player Students can listen to an audio overview at the start of each chapter Pop ups Students can hover over important technical terms and keywords to instantly view definitions and actual images such as of biomass materials products equipment and pilot facilities Problem solving and objective type questions Over 450 questions are included Multiple choice quiz items with answers and solutions are provided at the end of each chapter These quizzes are carefully designed to satisfy all the key learning objectives for each chapter Indices for commonly used units and conversions and glossary of terms used in biomass conversion systems are provided to aid the students in problem solving Case studies Students will tackle case studies on bioenergy techno economics and feasibility particularly for biodiesel bioethanol and biogas productions as well as pyrolysis and gasification systems MS Excel templates are provided to conduct economic sensitivity analysis for each project Included in the case study package are short videos to guide the students on how to

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