

## PRODUCTION MINOR™ Spray Dryer

- Versatile Spray Dryer for in-house research and small scale production
- Interchangeable atomization and powder discharge systems
- Sanitary design
- Standard modules for a wide range of configurations



Plant with single-point powder collection in container under cyclone.



Rotary atomizer

Two-fluid nozzle, co-current



Two-fluid nozzle, co-current mode



Two-point powder collection: Coarse powders from the drying chamber base and fine powders from the cyclone.



# Niro Production Minor Spray Dryer Manual

**CL Gary**

## **Niro Production Minor Spray Dryer Manual:**

**Spray Drying of Vaccines** Cordin Arpagaus,2023-04-03 This book addresses the stabilization of vaccine powders by spray drying and provides an overview of the current state of the art on a laboratory and industrial scale. The book aims to familiarize readers with the advances in vaccine spray drying technology to understand its application potential better. In particular the book addresses the design of aseptic spray dryers, parameters affecting the spray drying process, sterile powder processing, cleaning procedures and powder filling. In addition different drying technologies for the production of dry powder vaccines are compared to discuss the unique capabilities of spray drying as a particle technology for vaccines. Special attention is given to research studies on spray dried vaccines published over the past 30 years with key findings from laboratory research to clinical trials. Potential applications of spray dried vaccines and routes of administration are presented in detail. Finally an outlook is given on how close the aseptic spray drying of vaccines is to the market and the challenges that need to be overcome to be commercially successful. The book's target audience is academics, researchers, vaccine developers, industry experts, students and possibly funders including government agencies who are active in the field. In addition the book is a reference source for those involved in the vaccine formulation and biopharmaceutical processing industry.

**Process-Spray** Udo Fritsching,2016-08-01 This book describes the latest research on producing functional particles using spray processes. The authors detail micro level elementary processes and phase boundaries, process analysis, scaling and modeling and macro level process functions and particle properties. They include numerical simulations and particulars of experiments for deriving process conditions for particle production.

**Green Techniques for Organic Synthesis and Medicinal Chemistry** Wei Zhang, Berkeley W. Cue, 2012-07-23 Green chemistry is a new way of looking at organic synthesis and the design of drug molecules offering important environmental and economic advantages over traditional synthetic processes. Pharmaceutical companies are increasingly turning to the principles of green chemistry in an effort to reduce waste, reduce costs and develop environmentally benign processes. **Green Techniques for Organic Synthesis and Medicinal Chemistry** presents an overview of the established and emerging techniques in green organic chemistry highlighting their applications in medicinal chemistry. The book is divided into four parts: **Introduction** Introduces the reader to the toxicology of organic chemicals, their environmental impact and the concept of green chemistry. **Green Catalysis** Covers a variety of green catalytic techniques including organocatalysis, supported catalysis, biocatalysis, fluororous catalysis and catalytic direct C-H bond activation reactions. **Green Synthetic Techniques** Presents a series of new techniques assessing the green chemistry aspects and limitations, i.e. cost, equipment, expertise. Techniques include reactions in alternative solvents, atom economic multicomponent reactions, microwave and ultrasonic reactions, solid supported synthesis, fluororous and ionic liquid based recycling techniques and flow reactors. **Green Techniques in Pharmaceutical Industry** Covers applications of green chemistry concepts and special techniques for medicinal chemistry including synthesis, analysis, separation, formulation and drug

delivery Process and business case studies are included to illustrate the applications in the pharmaceutical industry Green Techniques for Organic Synthesis and Medicinal Chemistry is an essential resource on green chemistry technologies for academic researchers R D professionals and students working in organic chemistry and medicinal chemistry Discovery,1965 **The Chemical Engineer**,2003 **Tanganyika Trade Journal**,1968 Dairy Powders and Concentrated Products Adnan Y. Tamime,2009-11-16 The economic importance of dairy powders and concentrated products to dairy producing countries is very significant and there is a large demand for them in countries where milk production is low or non existent In these markets dairy products are made locally to meet the demand of consumers from recombined powders anhydrous milk fat and concentrated dairy ingredients evaporated and sweetened condensed milk This volume is the latest book in the Technical Series of The Society of Dairy Technology SDT Numerous scientific data have been available in journals and books in recent years and the primary aim of this text is to detail in one publication the manufacturing methods scientific aspects and properties of milk powders full fat skimmed and high protein powders made from milk retentates whey powders WP including WP concentrates lactose caseinates sweetened condensed milk evaporated milk and infant baby feed The book also covers the international standards relating to these products for trading purposes as well as the hazards such as explosion and fire that may occur during the manufacture of dairy powders The authors who are all specialists in these products have been chosen from around the world The book will be of interest to dairy scientists students researchers and dairy operatives around the world For information regarding the SDT please contact Maurice Walton Executive Director Society of Dairy Technology P O Box 12 Appleby in Westmorland CA16 6YJ UK email [execdirector@sdt.org](mailto:execdirector@sdt.org) Also available from Wiley Blackwell Milk Processing and Quality Management Edited by A Y Tamime ISBN 978 1 4051 4530 5 Cleaning in Place Edited by A Y Tamime ISBN 978 1 4051 5503 8 Advanced Dairy Science and Technology Edited by T Britz and R Robinson ISBN 978 1 4051 3618 1 International Journal of Dairy Technology Published quarterly Print ISSN 1364 727X Online ISSN 1471 0307 **Chilton's Food Engineering**,1988 Dairy Industries International,1986-08 **Metallurgia**,1990

**Flue Gas Desulfurization and Industrial Minerals** M. Michael Miller,Deborah A. Kramer,G. Oliver Vagt,1993 Contains 4 101 references on FGD Flue Gas Desulfurization primarily from 1982 through June 1993 Complements the Flue Gas Desulfurization and Denitrification bibliography published by the U S Dept of Energy in Jan 1985 References were located on the Energy Science and Technology Pollution Abstracts and Environmental Bibliography databases Primarily covers FGD and the use of industrial minerals in the desulfurization process or in by product utilization and disposal Emphasizes post combustion removal of sulfur dioxide through processes such as in duct injection and wet and dry scrubbing

**Chemical & Process Engineering**,1969 Paper Trade Journal,1954 Small Business Sourcebook,1999 A guide to the information services and sources provided to 100 types of small business by associations consultants educational programs franchisers government agencies reference works statisticians suppliers trade shows and venture capital firms

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