



SEPARATION

FIRST CHOICE FOR HYGIENIC PRODUCT TREATMENT

ANDRITZ NUTRION™ VACUUM DRUM FILTER

ANDRITZ

ENGINEERED SUCCESS

With around 2,500 drum filters supplied and more than 90 years of experience, ANDRITZ can draw on extensive filtration know-how applied in practice with the latest innovations. Vacuum drum filters are the state-of-the-art option for many processes and often the preferred technology for filtration and dewatering. It consists of a drum that is immersed in a trough filled with slurry, and when differential pressure is applied, a cake is formed. With Nutrion, ANDRITZ is bringing vacuum filters to the highest level of hygiene.



A more hygienic and safer process without any worries

Are you facing problems in your process, such as contamination, manual cleaning effort, or unplanned downtimes? Achieve a better-quality product, reduce cleaning efforts, increase the safety of your operators, and obtain greater equipment availability thanks to ANDRITZ Nutron vacuum drum filters.

ANDRITZ has improved the conventional vacuum drum filter design to achieve highest hygienic standards. The result is the Nutron vacuum drum filter, designed with various technical innovations, including the following key components:

New trough design makes maintenance easier and increases cleanliness in this highly sensitive area:

- No internal moving parts
- Clean design with fewer dirt traps
- Circulating system for perfect mixing
- Self-emptying design for all components
- No need for lubricants inside process area

Vapour-tight hood eliminates risk of product contamination and increases product quality:

- Integrated CIP system
- Fewer dead zones due to new sealing design
- Optional cake washing device

For pre-coat application, enclosed scraper improves product quality and considerably increases the safety of the operating staff:

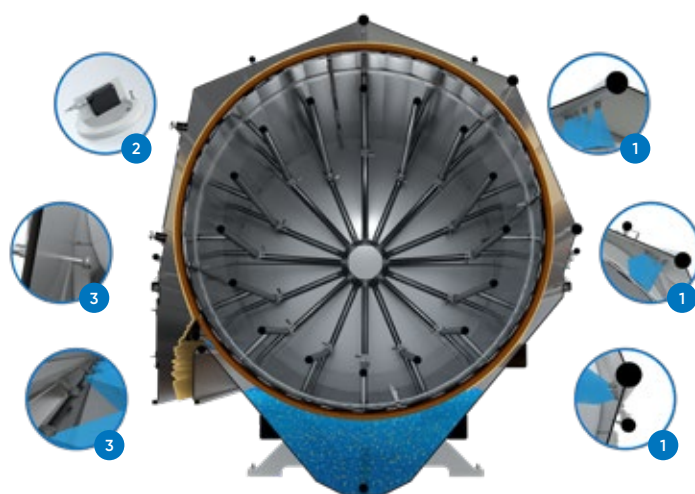
- Clean scraper mounting without any screws
- Enclosed design with easy access
- Step motors for accurate settings
- Integrated CIP system (blade and holder)

Magnetic clamping device eliminates dirt traps and reduces downtime for filter cloth installation

- Next level of cloth installation (quick and easy)
- No installation grooves (dirt traps)
- No additional consumables needed

YOUR BENEFITS

- Less cleaning effort
- No risk of product contamination and higher product quality
- Improved product quality and increased staff safety
- Greater availability and reduced downtimes for filter cloth installation
- Minimum manual interventions



1 Cake washing

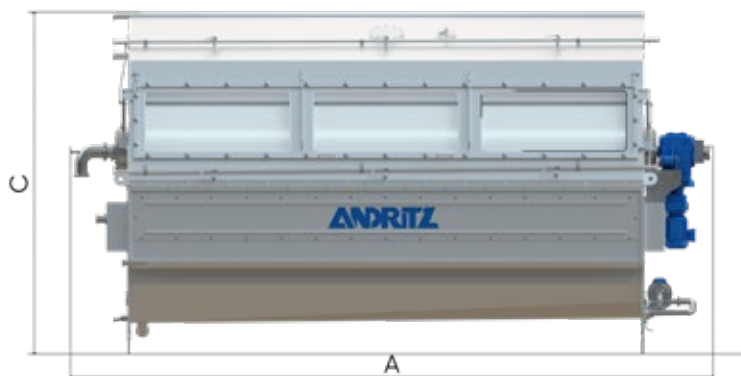
2 Cake height measurement

3 CIP system blade and blade holder

A technical solution for many applications

ANDRITZ Nutron vacuum drum filter, with its hygiene-optimized design, ensures high-quality of end products for demanding sectors such as food and pharmaceuticals.

Drum diameter mm	Drum length mm	Filtration area m ²	A (length) mm	B (width) mm	C (height) mm	Installation weight kg	Operating weight kg
1,908	2,000	12	3,340	2,350	2,750	4,400	5,400
	2,500	15	3,840			4,700	6,000
	3,000	18	4,340			5,100	6,600
	3,500	21	4,840			5,400	7,200
	4,000	24	5,340			5,700	7,800
	4,500	27	5,840			6,100	8,400
3,180	3,000	30	4,735	3,650	4,410	11,900	15,300
	3,500	35	5,235			12,500	16,400
	4,000	40	5,735			13,000	17,500
	4,500	45	6,235			13,600	18,700
	5,000	50	6,735			14,200	19,800
	5,500	55	7,235			14,700	20,900
	6,000	60	7,735			15,300	22,100





STARCH



YEAST



BY-PRODUCTS



PHARMACEUTICALS



NEUTRACEUTICALS AND HEALTH FOOD INGREDIENTS*



PERSONAL CARE AND COSMETICS*



FRUIT EXTRACTS AND JUICE CONCENTRATES



ANIMAL FEED*

* Using microcrystalline cellulose (MCC)



Your full-service provider

With ANDRITZ, you gain access to one of the world's largest OEM manufacturers for solid/liquid separation systems, including such well-known brands as 3Sys Technologies, Bird, Delkor Capital Equipment (Pty) Ltd., Escher Wyss dryers, Guinard Centrifugation, KHD Humboldt Wedag, Krauss-Maffei centrifuges, dryers, and filters, Lenser, Netzsch Filtration, Rittershaus & Blecher, Royal GMF Gouda, Sprout Bauer, and Vandenbroek.

Whether you need spare parts, rentals, local service, repairs, upgrades, or modernization of your equipment, ANDRITZ is your true full-service provider. From initial consulting through to service agreements, process optimization, and training programs, we are always looking for ways to minimize downtime and increase

predictability in operations while raising your overall production efficiency. Wherever you operate, our network of 550 service specialists and global service centers ensures we'll always be there to support you for many life cycles to come. Let's sit down and see how we could take your operations to the next level.



LOCAL SUPPORT

Responsive local service centers and field service technicians



REPAIRS & UPGRADES

Optimization of machine and process performance, repair work, retrofitting, and modernization



SECOND-HAND & RENTALS

Certified second-hand and rental machines



TRAINING

Operator training and tailored seminars for operating and maintenance personnel



OEM SPARE PARTS

Filter cloths, spare and wear parts from OEMs or with OEM level quality, all readily available



SERVICE AGREEMENTS

Preventive maintenance, contracts for spare parts, maintenance, inspections, repairs, upgrades, operation, and equipment monitoring



PROCESS OPTIMIZATION

Automation tools and process expertise to boost your profit



LAB AND ON-SITE TESTS

Lab and testing capabilities for process optimization and machine upgrades



Intelligence for machine and process control

With Metris addIQ, you have a well-proven, intelligent control solution for industrial processes and machines. Our solid/liquid separation specialists use their in-depth expertise to provide scalable solutions that are individually tailored to regional and application requirements. Whether you're automating new equipment or upgrading to extend the lifecycle of existing systems, we find the ideal solution for you.

METRIS addIQ CONTROL SYSTEMS

Our tailored turnkey systems from a single supplier can improve entire plants or individual machines. By providing state-of-the-art automation technologies and digitalization, we ensure best-in-class performance. Automating machine and plant equipment measurably reduces gaps in many different production process steps. By using automation from ANDRITZ, you can reduce downtime thanks to features such as predictive analysis that allow you to optimize productivity.

Metris addIQ covers all levels of automation, starting at basic automation (machine, process, and plant control), to upgrades, and add-ons for process optimization. Together, you have a full range of optimized solutions that help reduce maintenance efforts and ensure preventive service for your machines and plants. These are all delivered from a single source and always individually tailored to your business demands. addIQ control systems are part of Metris, the ANDRITZ brand for digital solutions.



Metris
ANDRITZ Digital Solutions



ANDRITZ offers a broad and constantly growing range of innovative products and services in the industrial digitalization sector under the brand name Metris, helping customers to enhance plant efficiency and profitability, optimize the use of resources, achieve constant and highest product quality, reduce production downtime, and maximize user-friendliness.



WHAT'S YOUR SEPARATION CHALLENGE?

ANDRITZ Separation is the world's leading separation specialist with the broadest technology portfolio and more than 2,000 specialists in 40 countries. For more than 150 years, we have been a driving force in the evolution of separation solutions and services for industries ranging from environment to food, chemicals, and mining & minerals. As the OEM for many of the world's leading brands, we have the solutions and services to transform your business to meet tomorrow's changing demands – wherever you are and whatever your separation challenge. **Ask your separation specialist!**

AFRICA

ANDRITZ Delkor (Pty) Ltd.
p: +27 11 012 7300
separation.za@andritz.com

EUROPE

ANDRITZ Separation GmbH
p: +49 8139 80299 0
separation.de@andritz.com

ASIA

ANDRITZ Singapore Pte. Ltd.
p: +65 6512 1800
separation.sg@andritz.com

NORTH AMERICA

ANDRITZ Separation Inc.
p: +1 817 465 5611
separation.us@andritz.com

AUSTRALIA

ANDRITZ Pty. Ltd.
p: +61 3 8773 4888
separation.au@andritz.com

SOUTH AMERICA

ANDRITZ Separation Ltda.
p: +55 47 3387 9100
separation.bra@andritz.com

CHINA

ANDRITZ (China) Ltd.
p: +86 757 8258 6802
separation.cn@andritz.com

ANDRITZ.COM/SEPARATION

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