



# QUALITY DRINKING WATER WHEREVER YOU NEED IT

ANDRITZ Mobile Filtration Unit

**ANDRITZ**

According to a UNESCO study, 2.2 billion people do not have access to clean drinking water. ANDRITZ helps solve that problem by providing a containerized mobile water filtration unit, the ANDRITZ Mobile Filtration Unit (AMFU). Designed for use in any location with access to surface or ground water and a power supply, the AMFU can be used both as a stand-alone filtration unit in remote areas and as a backup for existing filtration plants. And thanks to its containerized design, it can be easily transported from one location to another.





# Mobile water filtration units for remote locations

The range of applications for the AMFU is vast. Its compact design allows for installation in remote or isolated areas (e.g. less developed regions or islands) to provide temporary or permanent access to drinking water.

Thanks to its plug & play concept, user-friendly functions and fast installation, it's the perfect solution when you need fresh drinking water quickly, like in emergency situations and natural disaster areas. The AMFU is equipped with open gravity filters with an underdrain floor and a backwash system, and it can be enhanced with a water disinfection system.

The system is housed in at least two containers (one for process and one or more for filtration) to generate clean drinking water wherever you need it.

## BENEFITS

- Sustainable solution (low power and water consumption)
- Enables fresh drinking water to be generated where it was impossible before
- Quick and easy installation – plug & play system
- Variable capacity
- Simple and reliable operation



ANDRITZ Mobile Filtration Unit (AMFU) made up containers (process and filtration)

# Fully adaptable to your industrial application

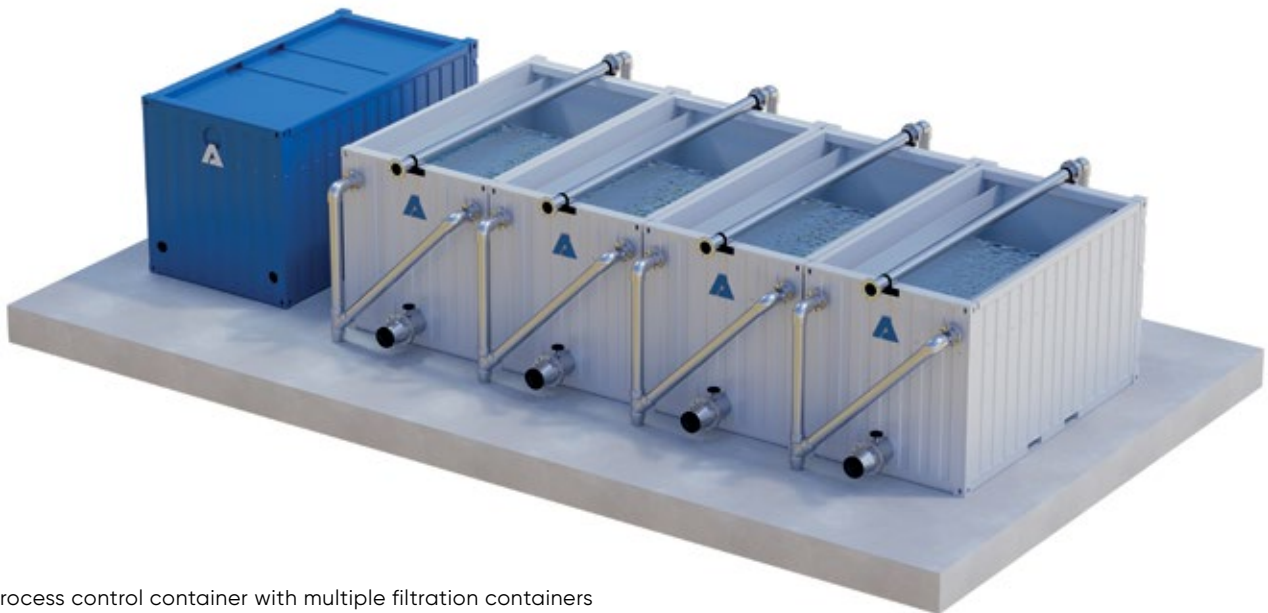
For industrial use, the scalable AMFU is the most flexible and effective supplement to produce extra process water whenever needed.

Sites with limited space can easily integrate the container-based design, for temporary or permanent production.

During maintenance works at a full-scale water filtration plant, the AMFU helps keep your operations

up and running, avoiding costly downtimes.

The AMFU is currently available in three standard units with different capacities (50 m<sup>3</sup>/h, 100 m<sup>3</sup>/h, 200 m<sup>3</sup>/h) and higher capacities can be engineered on request.



Process control container with multiple filtration containers

## FEATURES

### 20' filtration container:

- Open gravity filter with the ANDRITZ Underdrain System (AUS)
- Dispersal ramp
- Shipping container design (6 m x 2.4 m x 3 m)
- 316L stainless steel
- Filtering media: sand, CAG, and others

## FEATURES

### 20' process container:

- Air blower
- Backwash pump
- Dosing injection system (coagulant, chlorine,...)
- UV disinfection
- Control panel





#### **INTERNAL LAYOUT OF THE PROCESS CONTAINER**

1. Dosing injection system (coagulant of post chlorination)
2. UVc sterilizer
3. Booster pump
4. Sand filter washing pump
5. Air blower for air backwash phase

#### **OPTIONAL EQUIPMENT**

- Soft water tank with 100 m<sup>3</sup> capacity
- Removable cover to comply with requirements for works protection

# Looking for further equipment to complete your water filtration plant?



**ANDRITZ has over 25 years of experience in the manufacturing and installation of water intake systems and other equipment needed for the filtration, intake, and production of drinking water. Our experts have realized and installed many projects all over the world, from a desalination plant in the Middle East to water intake for drinking water in Europe.**

# 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 SYSTEM**

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.

The Metris addIQ control system 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.

Under the brand name Metris, ANDRITZ offers a broad and growing range of innovative products and services in the field of industrial digitalization. They help customers increase plant efficiency and profitability, optimise resource use, achieve consistent product quality, reduce production downtime, and maximise user-friendliness.



# 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, Dedert, Delkor Capital Equipment (Pty) Ltd., Escher Wyss dryers, Guinard Centrifugation, KHD Humboldt Wedag, Krauss-Maffei centrifuges, dryers, and filters, LENSER Filtration, Netzsch Filtration, REINEVELD centrifuges, 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



## A WORLD OF SEPARATION SOLUTIONS

ANDRITZ provides mechanical and thermal solid/liquid separation technologies, complemented by comprehensive services, automation, and digitalization solutions for the chemicals, environment, food and beverage, as well as mining and minerals industries. Our customized, innovative solutions focus on minimizing resource consumption and maximizing process efficiency, thus making a substantial contribution towards sustainable environmental protection. With over 150 years of experience and more than 2,700 separation specialists around the globe, we are a driving force in the evolution of separation solutions – enabling industries to meet tomorrow's demands responsibly. **ANDRITZ. FOR GROWTH THAT MATTERS.**

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