



Criteria	MITA
Effluent Quality	
Turbidity	<2 NTU •
TSS	<5 mg/L •
Phosphorus	<0.1 mg/L •
Stormwater TSS	5-20 mg/L •

Advantages	
CA Title 22-approved media	•
Smallest footprint in its class	•
Lowest head profile in its class	•
Pre-configured for simple install	•
Standard safety features & access	•
Scaleable for all flows	•

Applications	
TSS & Phosphorus removal	•
Water reuse	•
Increase UV transmittance	•
Tertiary filtration	•
Industrial treatment	•
CSO treatment	•
Sequestration of microplastics	•
Pathogen reduction	•

Problem

Your plant needs to address filterable contaminants, or provide reuse water. You need a proven solution that delivers immediately in the smallest footprint and lowest head profile available while minimizing O&M increases.

The Nexom Answer

The MITA® cloth disk filter reduces TSS, phosphorus and other contaminants while increasing UV transmittance, all in the simplest filter available. Here's how:

- **Reuse-approved** filter media delivers the required water quality. Nexom provides multiple media options, ranging from 5-10 microns in nominal pore size.
- **Footprint is minimized** because the entire filter system is within the footprint of the tank. The innovative MITA backwash vacuum shoes enable tighter disk spacing, further minimizing footprint.
- **Pre-configured:** All motors and backwash assemblies are factory-installed and -aligned, setting the standard for delivered quality and reduction of onsite integration and labor costs. Standard filter

designs feature access and safety features overlooked by others.

- **Configurable for any flow:** the MITA cloth media filter can be delivered in horizontal filters for installation in concrete or pre-fabricated tanks or supplied in a footprint-saving low-head vertical orientation for smaller flows. (Nexom also has reuse media-equipped drum filters for even the smallest discharge flows.)

How it works

The MITA disk filter is an outside-in cloth media filter using depth filtration to capture solids. Headloss setpoints initiate an auto cleaning cycle where disks rotate past fixed backwash shoes, cleaning the filter media. Automated desludging prevents accumulation or degradation to performance.

Designed to be better

The drive system and backwash pumps are pre-installed and aligned at the factory so the MITA cloth disk filter is ready to drop into your tankage, connect, and commission. Nexom owns the quality of the delivered and finished product while providing savings in footprint, concrete, other civil works, and installation effort.

technologies for cleaner water

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MITA cloth disk filters serve some of the largest WWTPs on earth!

At the 1.2M PE, Cuma water treatment plant near Naples, Italy (pictured below), the sixteen 32-disk filters (with filter area of 28,000 ft² or 2,600 m²) were commissioned in 2020 and are designed to treat 151 MGD (686,000 m³/d) to meet <10 mg/L TSS.



Likewise, nearby at the 2021-commissioned 76 MGD (350,000 m³/d) Napoli Nord treatment plant, Italy, the eight 32-disk filters (with filter area of 13,800 ft² or 2,600 m²) are also designed to meet <10 mg/L TSS.

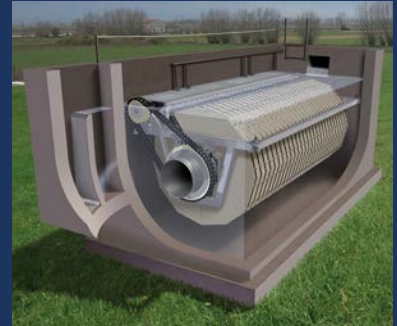
At Crewe, England, the four 24-disk filters (pictured at right), with 5,179 ft² or 480 m² of filter area, were commissioned in 2018 to treat the 18.4 MGD (83,600 m³/d) to meet limits of <10 mg/L TSS and <0.5 mg/L TP.

Since its commissioning in 2010, the Sant'Antonino Ticino, Italy, treatment facility has used its twelve 24-disk filters, designed to treat approximately 65 MGD (roughly 300,000 m³/d) to address its limit of <10 mg/L TSS.

Finally, the 0.7 MGD (2,600 m³/d) Wivelsfield, England treatment plant uses two 4-disk vertical shaft MITA cloth disk filters (pictured, right) with 430 ft² (40 m²) of active filter area to help meet its own TSS consent.

Nexom knows filtration

The Nexom team has been pushing the bounds of filtration for over two decades covering hundreds of projects across the U.S and Canada. Our engineers collaborate within the Axis Water platform to deliver filtration solutions around the world, and are the leading experts in a range of technologies including Blue PRO reactive filtration.



Nexom brings this experience to our partnership with MITA Water Technologies. Hundreds of sites globally already rely on MITA cloth disk filters, and we are proud to manufacture this go-to technology in America!



UPGRADING WITH MITA IS EASY AND EFFECTIVE

1

We walk you through exactly what project details we need. Call 888-426-8180 or email info@nexom.com.

2

We supply design-ready drawings, proprietary technologies, and responsive support.

3

You never worry about your TSS, Turbidity, or Phosphorus levels again.