

Filtration Systems

LGN Group — Technical Guide

Overview

This guide consolidates best practices and engineering know-how for modern processing plants. Use it to shorten commissioning time, reduce downtime, and improve product quality and energy efficiency.

Key Topics

- MF/UF/NF/RO Principles
- Filter Media Selection
- Fouling & Cleaning Protocols
- Quality & Regulatory Considerations
- Performance Monitoring

Practical Notes

- Design for cleanability and safety.
- Instrument and log critical parameters.
- Schedule preventive maintenance aligned with production windows.

Included Technical Files

File	Description
Filter Sizing Calculator	Essential engineering reference
Membrane Care Instructions	Day-to-day operations aid
Cleaning Protocols	Quality & reliability support

Commissioning / Maintenance Checklist

- Verify materials and seals vs. product and temperature.
- Confirm utility capacities (water, steam, air, power).
- Calibrate sensors; validate interlocks and alarms.
- Run CIP; inspect hygienic joints and gaskets.
- Record baselines for flow/pressure/temperature/energy.

Contact & Support

LGN Group provides sourcing, installation, and lifecycle support for leading process equipment brands. For detailed engineering assistance or spare parts, contact us.

Email: info@LGNgroup.co **Phone:** +98 21 66154556 **Web:** lgngroup.ir