

TETRA PAK® MEMBRANE SCOPE

Spiral-wound membrane leak detection kit



See how the scope works in this [video](#).

APPLICATION

Tetra Pak® Membrane Scope is a first-of-its-kind diagnostic tool that provides visual confirmation as to the source of poor permeate quality/product loss in UF, NF, and RO spiral-wound dairy filtration systems.

Tetra Pak® Membrane Scope streamlines the diagnostic process and rapidly removes the uncertainty in identifying the failure source, which will lead to reduced costs associated with product loss, equipment down-time, operator intervention time, and unnecessary element replacement.

HIGHLIGHTS

- Greatly reduces diagnostic time
- May be deployed in UF, NF, and RO systems
- Clear, visual results (recordable in both video and photo format)

- Performed during production mode
- Safe/easy operation

WORKING PRINCIPLE

The scope utilizes a waterproof recording video inspection camera and a 20-meter-long probe to visually identify the source of failure.

The scope allows a filtration system operator to visually determine whether an element is failing/leaking, or if an interconnector seal has failed.

This procedure is performed while the system is in production mode (a shut-down is not required).

If it is determined that a specific membrane is contributing to poor permeate quality or product loss, the specific membrane can be removed from production and replaced with a new one.



Complete Tetra Pak Membrane Scope® kit

EQUIPMENT

- Waterproof recording video inspection camera
- 1 m long probe
- 20 m long probe
- Two (2) patent pending probe adapters
- Custom protective case
- Eight (8) AA rechargeable batteries
- Battery charger
- Eight feet of lay-flat hose connected to a ferrule fitting
- Two (2) 1.5" low-pressure tri-clamps
- Two (2) 1.5" EPDM gaskets
- MicroSD card and adapter
- USB and A/V cables

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