Tetra Pak® Membrane Scope
Spiral-wound membrane leak detection kit (P/N 90525-1443)

**Design**

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

- Tetra Pak® Membrane 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 a specific element(s) is contributing to poor permeate quality or product loss, the specific element(s) can be removed from production and replaced with a new element.

- 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

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

Image depicting an element failure in a milk RO system (Feed product leaking through the permeate tube holes)

Operator deploying Tetra Pak® Membrane Scope