

Troubleshooting

General Troubleshooting Matrix

	Permeate Flow	Salt Passage	Differential Pressure	Issue	Cause	Corrective Measure
After Start-Up	↑	↑	-	O-ring leak	Improper installation	Replace o-ring
	↑	↑	-	Leaking permeate tube	Damage during loading / start-up	Replace element / install soft-starting motors
	↑	↑	-	Membrane leak	Excessive permeate backpressure or abrasion	Replace element, improve prefiltration, improve downstream design
Process Upset	↑	↑	-	Oxidation damage	Free chlorine, ozone, KMnO ₄	Replace element, fine-tune upstream neutralization
	↓	↓	-	Compaction or intrusion	Exposure to high temperature and pressure	Seek out new element design, avoid temperature / pressure excursions
	-	↑	-	Cracked fiberglass	Water hammer	Replace element / install soft-starting motors
During Operation	↓	-	↑	Biofouling	Upstream contamination or insufficient pretreatment	Clean or disinfect. Check upstream processes and remove biological source
	↓	↑	↑	Colloidal fouling	Insufficient pretreatment	Clean and improve pretreatment
	↓	-	-	Organic fouling	Organic matter, oil or cationic polymer in feed	Clean and improve pretreatment
	↓	↑	↑	Scaling	Insufficient pretreatment	Clean and improve pretreatment or antiscalant dosage

↑ Increase ↓ Decrease - No Change ↑/↓ Primary Symptom

Contact

Europe
 Germany: +49 611 962 6001
 Italy: +39 0721 1796201
 info@microdyn-nadir.com

Americas
 USA: +1 805 964 8003
 sales.mnus@microdyn-nadir.com

Asia
 Singapore: +65 6457 7533
 China: +86 10 8413 9860
 waterchina@mann-hummel.com

FORM NO.: TSG-T-001
 REVISION DATE: 07/01/2021

