

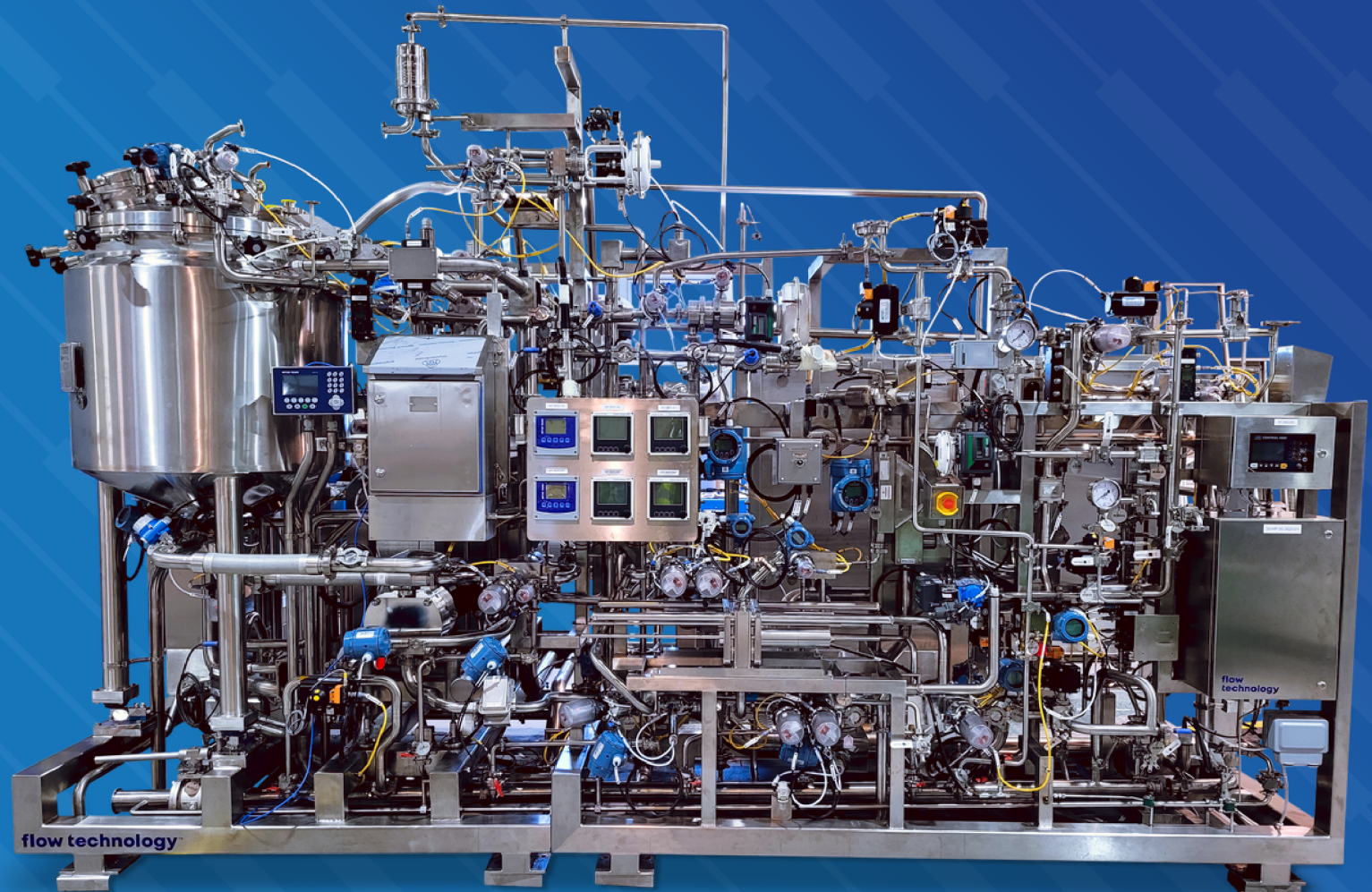
CASE STUDY - BIOTECH CUSTOMER

ULTRAFILTRATION DIAFILTRATION SKID

A world class process
engineering solutions
business

TECHNOLOGY OVERVIEW

- Millipore PEH1150HHPT3 Membrane Holder, up to 8m² using Pellicon 3.
- 300L Retentate Vessel with Mettler Toledo load cells & Fluoroflex hosing.
- GEA Hilge Novalobe pump
- Emerson, Mettler Toledo, Endress & Hauser & Optek Instrumentation (pH, Conductivity, UV, Temp, Pressure).



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Case Study Biotech Filtration Skids

- FAT 2020
- Commissioning: 2020/2021
- Harvest Depth Filtration, Downstream Depth & Viral Filtration Skids

Technology Overview

- Viral Filters: Planova
- Depth Filters: Merck Millipore POD
- Stainless Steel construction with FDA-approved USP Class VI Elastomers

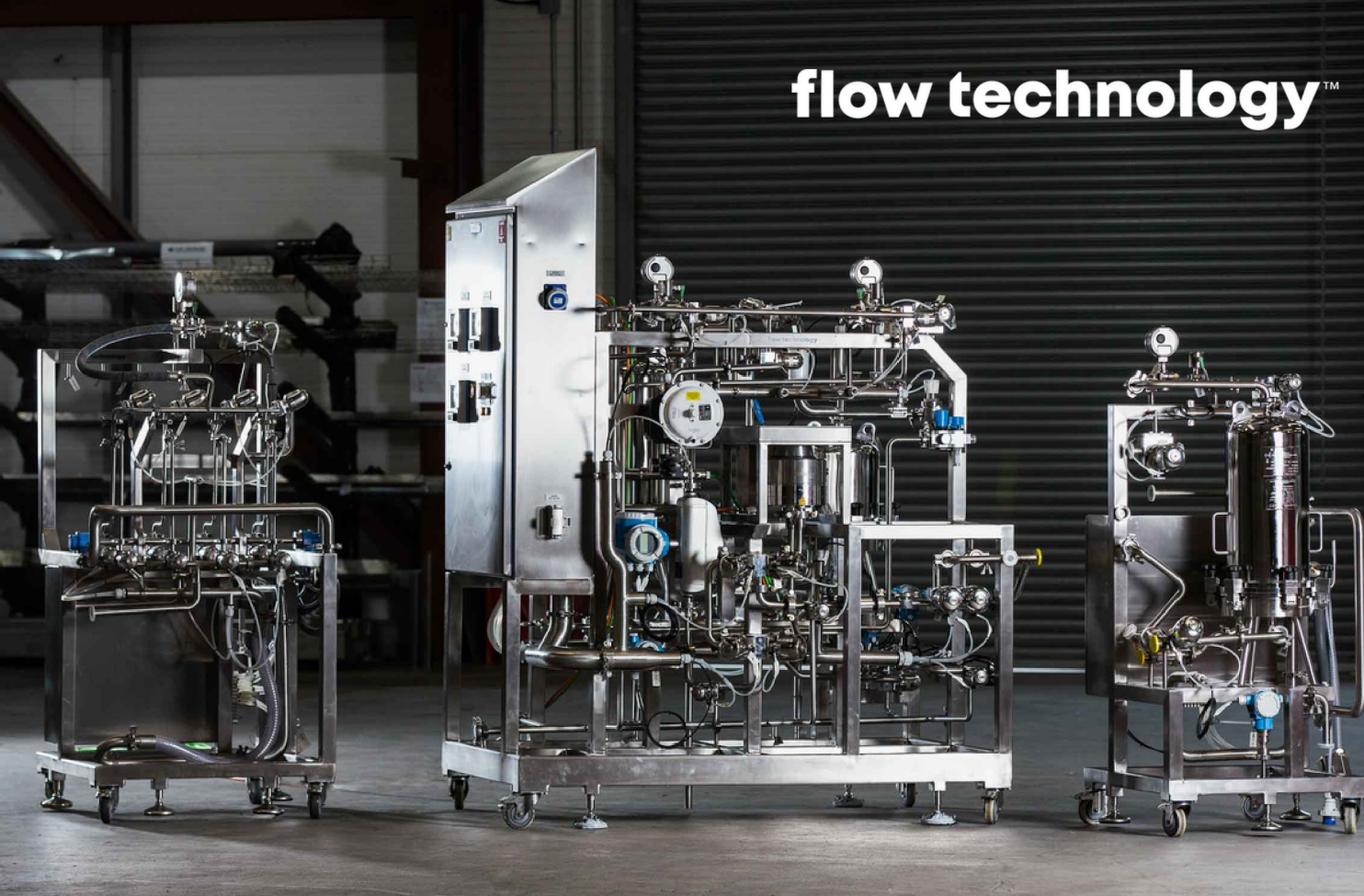
Planova Filter Tilt Mechanism

- Full Skid Tilt Mechanism (Picture to the left)
 - START: Process Position, 10° from Vertical
 - TILTED: Orientation for pressure leak test and priming all 4 filters at once.
- Minimal operator handling of the filters, one single connection break.
- ATEX-rated, fully enclosed bearing housing
- Design reduces downtime & potential for operator error.

System Details

QTY 3 x Filtration systems, prefabricated on a stainless steel frame. Comprising of:

- Quattroflow Pumps (QF10K & QF5050S)
- Filter Housings (Allegheny Bradford)
- Valves (Gemu, Baumann & Tescom)
- Instrumentation for Pressure, Temperature, Flow, Level, Conductivity & pH (E&H, Wika, AQ Eltechnic & Andersen Negele)
- Full safety assessment and supply of bursting discs (BS&B)



FILTRATION SYSTEM CAPABILITIES

Technology Expertise

- Nano Filtration
- Depth & Harvest Filtration
- POD Filtration
- Viral Filtration
- TFF/Ultrafiltration
- Diafiltration

Equipment & Platform Flexibility

Experience and expertise with multiple manufacturers of filters and media.

World Class Engineering, Fabrication & Testing

- Over a decade experience in designing biopharma filtration systems
- Mastercraftsmen and exceptional build quality
- Full FAT (Including SIP) capabilities at our state-of-the-art facility

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Further Information

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