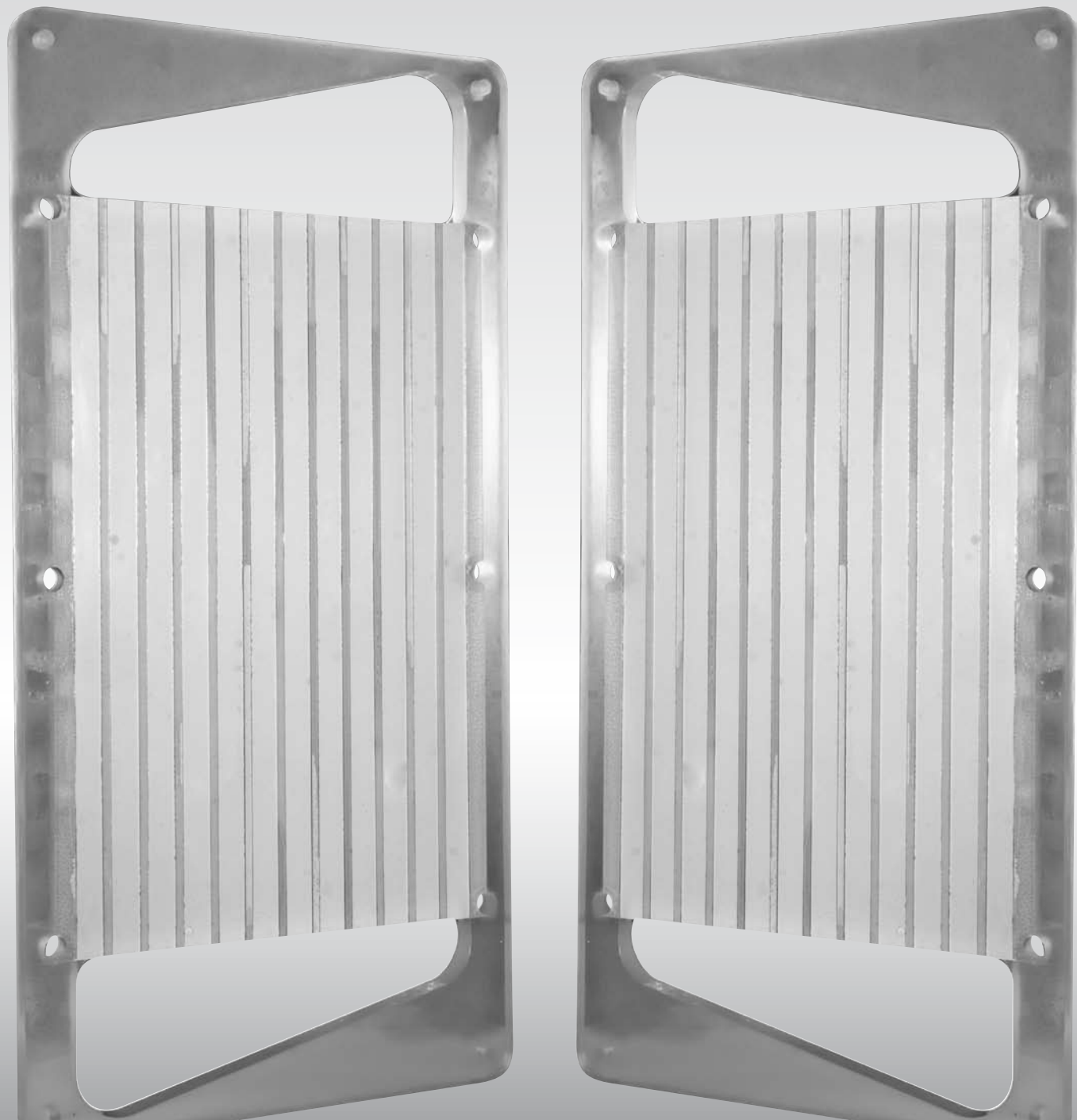


FLOW-CEL®

Cassette systems for ultrafiltration



MICRODYN-NADIR GmbH
Rheingaustraße 190-196
65203 Wiesbaden / Germany
Tel. + 49 611 962 6001
info@microdyn-nadir.de
www.microdyn-nadir.com



MICRODYN
NADIR

ADVANCED SEPARATION TECHNOLOGIES



FLOW-CEL®

Cassette systems

The filtration of highly viscous media in many biotechnology processes makes particularly high demands on membranes and membrane modules.

Due to its defined open channels, the FLOW-CEL® cassette system is well designed for the gentle and energy efficient filtration of liquids with high solids content, e.g. concentrated proteins or cheeses.

The FLOW-CEL® cassette system with its considerably higher packing density compared to classic plate- and frame systems is characterized by its compact size. With a membrane area of 10 m² per cassette, it has a clearly larger process potential and is much easier to operate than comparable systems.

The weight of the system is 20 kg, and its length is less than 1300 mm. This is a very compact design and easy to handle for one single person.

The NADIR® ultrafiltration membrane UP010, based on polyethersulfone, retains proteins and optimizes yields. NADIR® membranes exhibit good hydrophilic properties and stable permeate fluxes. Their high mechanical resistance enables long durability.

The patented composite of membrane and permeate spacer makes backflush from the permeate side possible and ensures an effective cleaning. The hygienic design allows for applications with high sterility demands.

By expanding the product portfolio with the FLOW-CEL® cassette system, MICRODYN-NADIR can now offer filtration solutions on the basis of flat membranes for fermentation processes, which cover the entire process ranging from the separation of biomass to the diafiltration and concentration of the products.

ADVANTAGES

- » Backflushable cassette system
- » High packing density
- » High tolerance to solids
- » Safe and easy handling

Technical specifications of the FLOW-CEL® cassette system

FLOW-CEL® FD UP010	
Membrane	polyethersulfone (PES)
Membrane area	10 m ²
MWCO	10 kDa
Heights of the feed channel	0.75 / 1.0 / 1.5 mm
Maximum temperature (for cleaning)	55 (60) °C
pH range permitted for operation (for cleaning)	2 – 10 (2 – 12)