

UF PILOT KLEANSEP K01

Data Sheet

Crossflow Filtration with Ceramic Membrane

The pilot unit has been developed to provide a solution that is both adaptable and high-performing in applications involving loaded and viscous fluids such as biomass, sludge, and slurry. It is equipped with a pump controlled by a variable frequency drive, capable of delivering a maximum flow rate of 3,000 L/h at pressures up to 4 bar, ensuring precise flow regulation.

The system includes electronic sensors for data acquisition and recording, allowing full process monitoring. The Kleansep™ K01 ceramic membrane filtration module

delivers reliable and efficient performance for treatment operations. Operational safety is ensured by protection systems against overpressure, low level, and high temperature.

The unit is simple and ergonomic to operate thanks to manual valves for flow control. Mounted on casters, the pilot can be easily moved and installed in various working environments.



Features

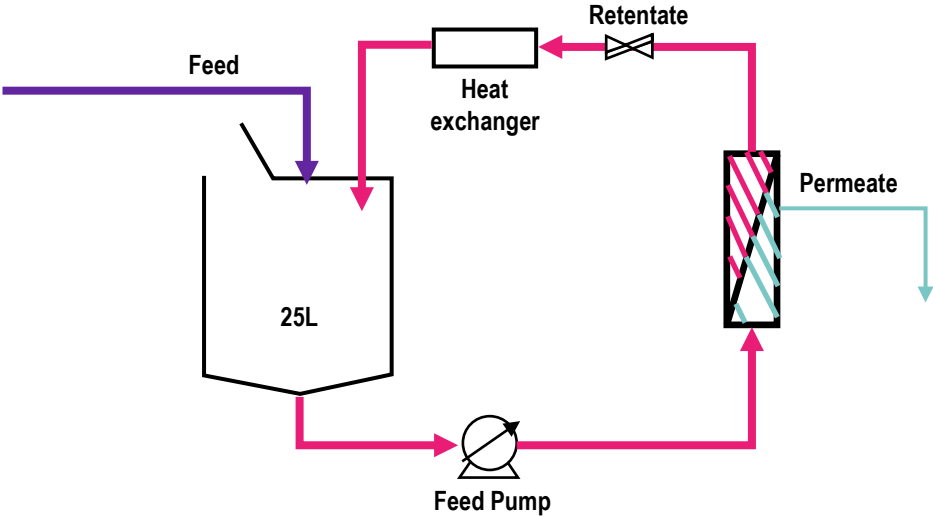
- Variable-speed pump, 0–3,000 L/h, max. 4 bar
- 25 L working tank
- Electronic sensors with data acquisition
- Kleansep™ K01 ceramic membrane module
- Tubular heat exchanger
- Process protection: low-level, high-pressure, and high-temperature
- Easy operation with manual valves
- Easy movement on casters

Key Advantages of this Pilot Unit

- 316L wetted materials
- Progressive cavity pump, ideal for loaded and viscous fluids such as biomass, sludge, and slurry
- Accurate process sensors
- Data logging
- Fully drainable
- Reliable safety system
- Mobile unit

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Performance

Performance	
Flow rate and feed pressure range	3 m ³ /h – 4 bar
Typical permeate flow rate	25 L/h
Dimensions (Length × Width × Height)	1500 mm x 450 mm x 2100 mm
Wetted materials	316L stainless steel Pump with NBR or FKM stator
Empty weight	140 kg
Maximum tank volume	25 L
Minimum operating volume	7 L
Power supply	230 VAC, 50 Hz, 16 A
Rated power	1,5 kW
Process instrumentation	Inlet/outlet pressure sensors, temperature sensor, circulation flow sensor, permeate flow sensor Safety valve
Automated control system	Automatic level control Pilot shutdown on level, pressure, or temperature faults Data logging

Module and membrane	
Module type	Kleansep™ K01
Membrane area	0,15 - 0,5 m ²
Maximum working pressure	4 bar
Maximum temperature	60°C / 80°C (regeneration)
Module material	316L stainless steel