

VIREX PRO

Meet the toughest regulatory standards with Seccua's leading-edge Ultrafiltration: Certified pathogen-removal, integrated membrane testing, data-logging and web-based remote access.

Ultimate Removal Performance

The nano-pores of the Seccua Virex Pro Connect provide removal characteristics that meet and exceed regulatory requirements for membrane filtration used in drinking water treatment. The Virex Pro Connect has proven to fully remove parasites, cyst and bacteria, tested against US EPA and DVGW standards on surface water.

Removes Bacteria and Parasites

Every day the system tests itself, without requiring any operator's attention, for damages small enough to let bacteria and parasites pass, and alerts the user immediately should it detect a defect. Many Health Authorities in the US, Germany, Canada, Australia and other countries have selected the Virex Pro Connect as their system of choice when it comes to treating surface influenced raw water.

Natural filtration - still most reliable

The Virex Pro Connect has copied one of nature's most effective processes when it comes to water purification: filtration. With its filter's pores being smaller than pathogens and turbidity-causing particles, the Virex Pro Connect removes bacteria, parasites and turbidity in one single treatment step. With its state-of-the-art technology, the Virex Pro Connect offers water purification at lowest driving pressures and therewith lowest energy consumption.

Long filter-life

Being able to clean itself fully automatically, without requiring any operator-attention, the Virex Pro offers long filter-life and significantly lower operating costs than any other conventional filtration technology. If required, the Virex Pro Connect can even run chemically enhanced cleaning sequences, using different cleaning chemicals to clean the filters most efficiently.

Performance Data

Filtration Performance

- ✓ Peak load, short term : up to 1.3 l/s (20.6 gpm)
- ✓ Continuous load : up to 1,600 l/h (10,000 gpd)



Removal Performance

- ✓ Virus (MS2 Phages) : full removal (>4.7 log tested)
- ✓ Bacteria (B. Subtilis, E-Coli) : full removal (>4.7 log tested)
- ✓ Parasites (Cryptosporidia) : full removal (>4.7 log tested)
- ✓ Water consumption for cleaning : typically <2%

Operating conditions

- ✓ Max. Operating pressure : 5 bar (75 psi)
- ✓ Max. Operating temperature : 40°C (104 °F)

Operating modes

- ✓ Filtration : Feed pressurized by gravity or pump (I/O or 4-20 mA), feed
Flocculation can be controlled.
- ✓ Cleaning method : Flushing and backwashing by interval-, time of day- or
Fouling automatic chemically enhanced cleaning possible.
- ✓ Max Δp inlet to filtrate : 3.0 bar (45 psi)

Integrated Integrity Testing

- ✓ Test method : Pressure hold test, patented
- ✓ Resolution : Adjustable (approx. 0,5-3 μm) Standard settings 1.6 μm
- ✓ Frequency : Triggered by turbidity threshold (filtrate) and daily or
Adjustable.

Programming and remote access

The unit can be comfortably programmed through a Windows software and can be accessed locally through CAN-Bus or USB connection or remotely over the internet (GPRS Modem optional)

Data Logging

- ✓ Data logging : Event-driven and by time-interval,
- ✓ Logged Data Sets : Date, Time, feed-, filtrate-pressure, turbidity, flow, tank-
buffer-level, alerts and failures.
- ✓ Data memory : Approx. 40,000 data sets

Power Supply

- ✓ Power Supply : 12V, 230 V or 110 V, 1-phase
- ✓ Power Consumption : Approx. 5-20 W during filtration

Output Interfaces

- ✓ Feed-pump : Power On/Off or 4-20 mA.
- ✓ Feed-dosing Pump : Power On/Off or 4-20 mA
- ✓ Backwash-pump : Power On/Off
- ✓ Alert Monitoring : Cold contact, CAN-BUS or SMS (modem optional)
- ✓ Flow Measurement : 4-20 mA
- ✓ Operating mode status : CAN-BUS

Input Interface

- ✓ Turbidity-meter : 4-20 mA
- ✓ Alert Monitoring Peripherals : 12V potential
- ✓ Feed-/Storage tank signal : 4-20 mA

Control Interfaces

Integrated CAN-BUS signal can be translated to Ethernet-IP Bus (e.g. Allen Bradley PLC), Serial- or Profi BUS (e.g. Siemens S7 PLC) through an available Gateway-Module.

- ✓ Controllable functions (slave) : All standard operating functions
- ✓ Monitored Functions : Flow, Operating mode, pumps & peripherals modes, alarms

Approvals and Compliance

All materials in contact with water comply to ANSI NSF 61 standards, to DVGW KTW, DVGW W2315-5, CE and to US EPA Filtration Guidance Manual Standards (equals NSF ETV standards) for removal of Parasites, Bacteria and Virus to >4 log removal. Virex Pro Connect equipment is manufactured under ISO 9001 standards and complies to CE.

Weights and Dimensions

- ✓ Width : 358 mm (14 in.)
- ✓ Depth : 265 mm (10.5 in.)
- ✓ Height : 1368 mm (54 in.)
- ✓ Weight (dry) : 50 kg (110 lb)

Virex Pro Models available as below;

- i) Virex Pro Connect
- ii) Virex Pro Medical