

# FLEXOPERM® UF Machine

## PRODUCT DATA SHEET

The innovative and easy-to-service design of the FLEXOPERM UF Machine surmounts difficulties experienced with traditional spiral UF machines. First, by locating both the paint inlet and outlet on the bottom of the module, the compact design allows UF elements to be easily removed with much less effort. Second, the system design is modular. It is made from a few conventional parts that can easily be hand carried upstairs or through small passageways for quick on-site assembly, if so required.

It uses a '7940 type' spiral UF Element, with about ~15% more UF membrane area than a traditional '7640' UF Element, resulting in fewer modules to produce the required permeate. The typical permeate rate with cathodic paint could be ~650 l/hr (2.85 gpm) +/- 10%.



### Features

- 304 stainless steel construction.
- 2 inch paint inlet and outlet connections.
- Only needs 60 cm height above the unit for UF Element removal.
- Conveniently located permeate flow meter panel.
- Tapered Paint manifolds.
- Groove clamp type joints are used throughout to avoid leaks.
- See reverse side for dimensional data.

### Benefits

- Can be installed flush against a wall and still have sufficient access.
- Modular design makes machine very portable; it even can be disassembled and moved to another site.
- UF Elements can easily be removed since they only have to be lifted ~50 cm (20 in); the elements will not have the trapped, sticky paint solids that impede removal.
- To increase capacity, more UF Elements can easily be added. Prior planning makes the task even easier.

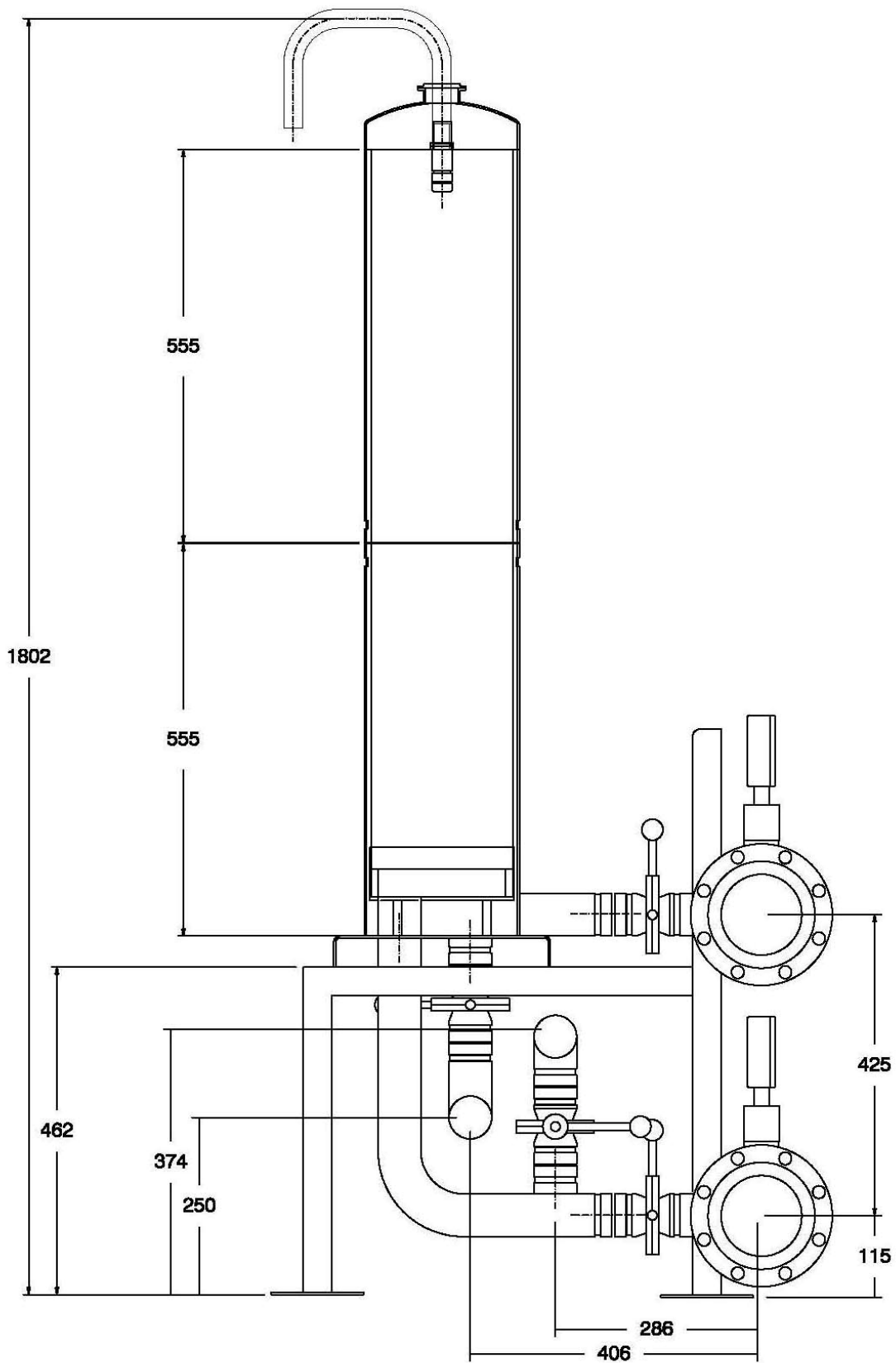
### Machine Requirements

- Required paint flow is ~22 - 26 m<sup>3</sup>/hr (100 -115 gpm) with pressure at machine of ~3.5 bar (50 psi).
- Use one more bag filter vessel than number of UF Elements.
- Located above rim of E-coat tank to allow gravity drainage.

### Options

- Magnetic paint flow meter.
- Integral Clean In Place piping.
- CIP or Total System Cleaning Systems available.
- Electronic Permeate Monitoring System.

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FLEXOPERM UF Machine Typical End View - Preliminary  
 All dimensions are mm.