

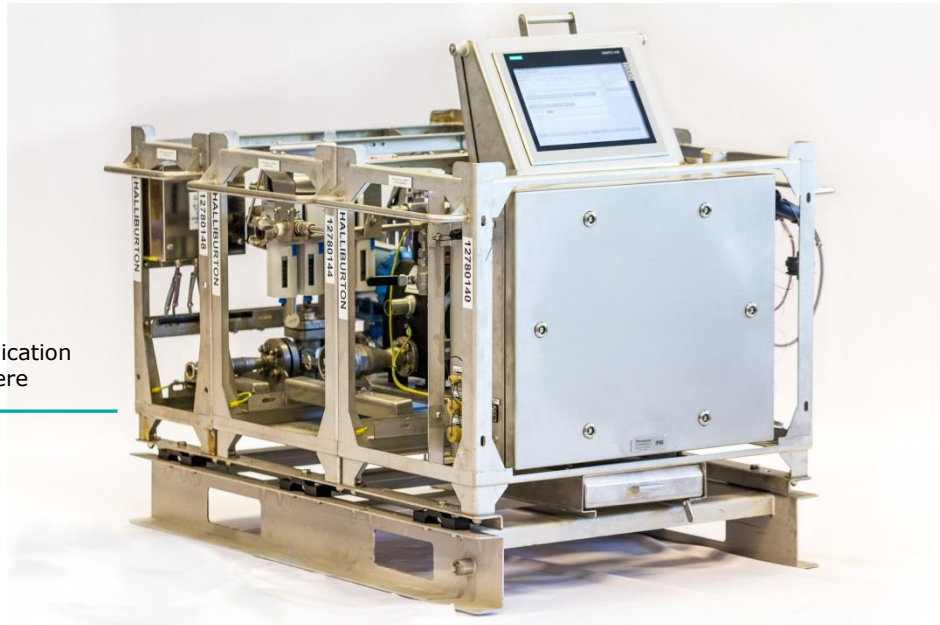
Compact multi purpose injection unit with pure Web communication

- Local set up and control using touch screen
- Remote set up and control via ethernet / fiber connection
- Plug and play modular for up to 5 liquids
- Control system, measuring system and pump on one pallet



Securely communication to anyone anywhere

Set up, control, monitoring and process data transfer on/to any device using pure Web technology



Footprint as a Euro pallet gives considerable freedom with respect to placement

ONE INJECTION DEVICE FOR ALL TYPES OF APPLICATIONS:

- Mud Mixing
- Fracking
- Cementing
- or other well treatment activity

PLUG AND PLAY:

- Local operation from touch screen
- Remote control via pluggable fiber cable output
- Web control by connecting network
- 2» Camlock couplings on in and outlet for quick connection to hoses or pipes

SPECIFICATIONS:

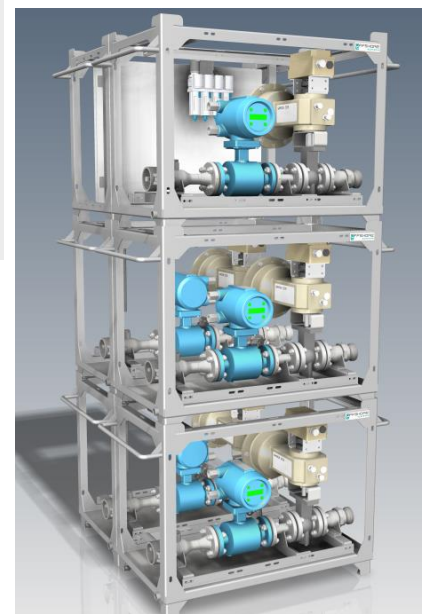
- For use in hazardous Ex zone 2
- Built in according to Norsok Z-015

ACCURATE READOUT and INSTANT ADJUSTMENT:

- Stand alone or integrated: The unit doses according to signal read from main flow or independently by values given by the operator
- Flow range for 1 to 200 liters per minut
- The regulating valve is controlled by actually measured flowed through flowmeter



SCALEABLE UP TO 5 LIQUIDS PER CONTROL CABINET



Realtime process data securely to anyone anywhere.

TECHNOLOGIES

- o PLC software: TwinCat
- o HMI software: Atvise
- o Communication: OPC UA
- o Web technology: HTML5

INSTRUMENTATION:

- o Regulation valve: Samson
- o Flowmeter: Rosemount
- o PLC: Beckhoff
- o IO modules: Beckhoff
- o Touch monitor: Siemens / Beckhoff

QUALITIES:

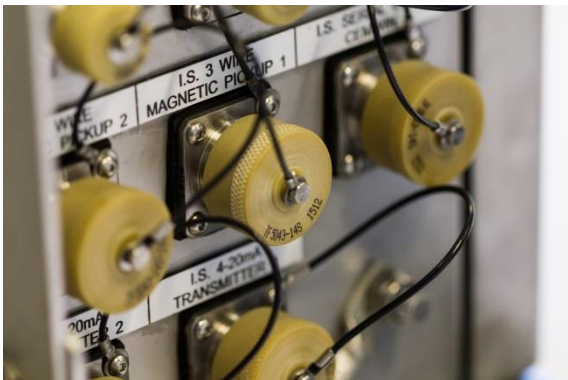
- o Frames: Stainless steel 316
- o Enclosures: Stainless steel 316

STANDARDIZED AND OPEN TECHNOLOGIES

We use standardized and open technologies (unlike proprietary) for control, structuring and presenting of communication

OPC UA is the data exchange standard for safe, reliable, manufacturer- and platform-independent industrial communication. It enables data exchange between products from different manufacturers and across systems.

Open technology means freedom to choose the most cost effective solutions without having to take into account the specific requirements from particular suppliers or brands.



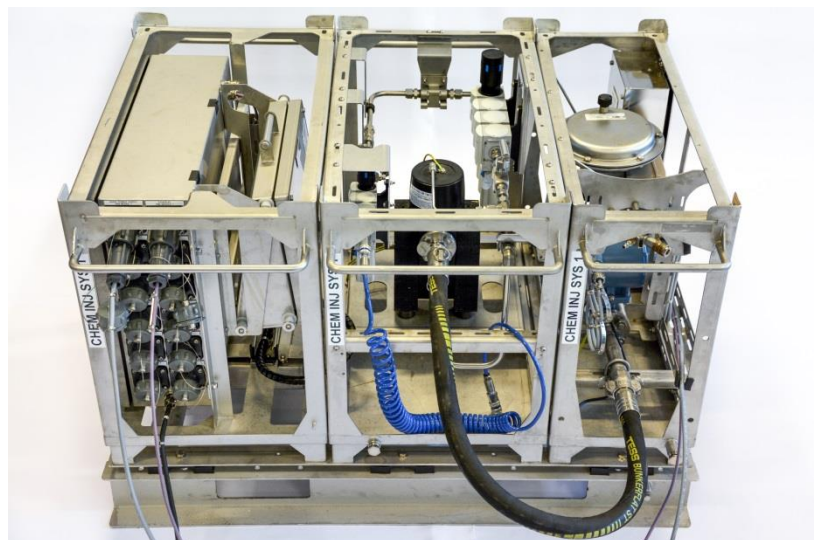
Plug connections for quick and easy startup.



Atvise HMI picture showing set up of the Smart Flow unit.

WEB ACCESS FACILITATES:

- o Monitoring & control from remote
- o Set up from remote
- o Diagnostic from remote
- o Updates from remote
- o Real time process data



TECHNICAL DATA:

- o Dimension: 945 x 450 x 650 mm
- o Weight total pallet: 300 kg
- o Weight measuring frame: 75 kg
- o Main power: 230 VAC 1 phase
- o Pump: Air driven
- o Safety: Emergency stop