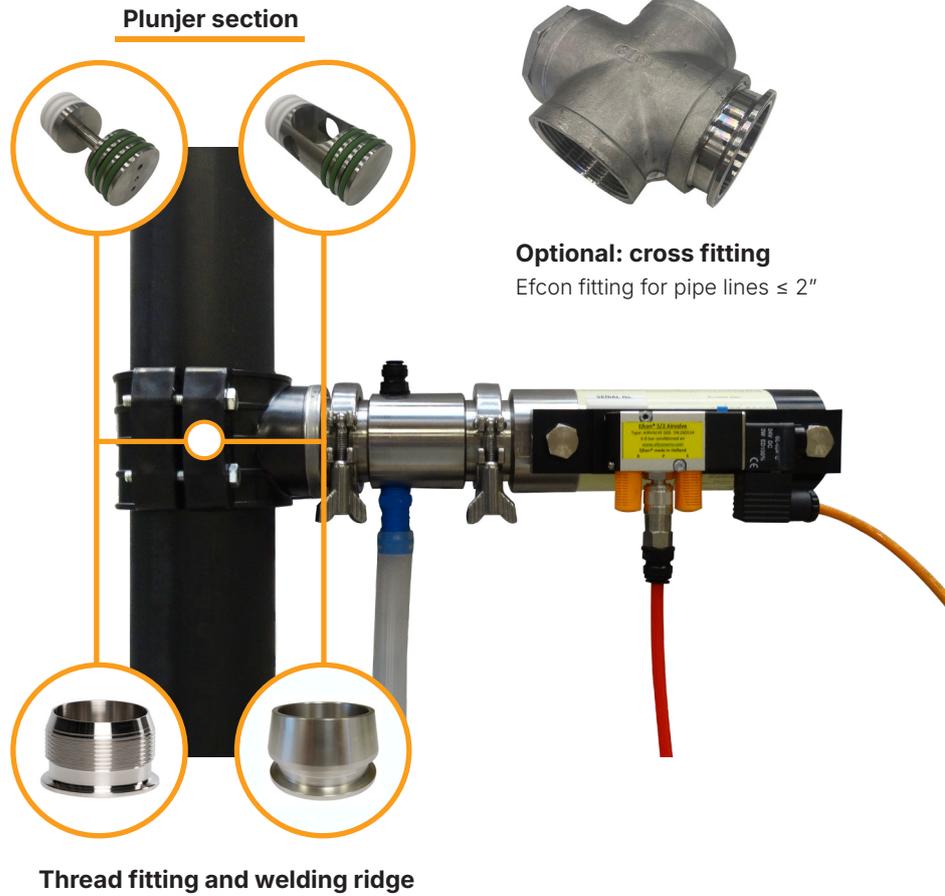


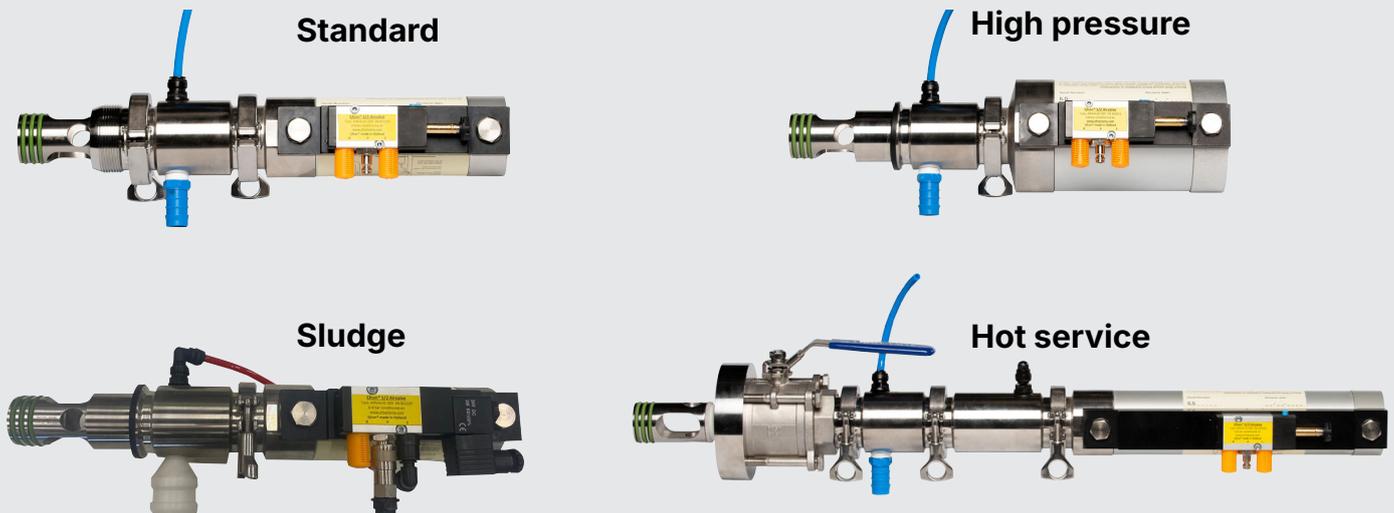
<b>Sample Cycle:</b>	± 5 sec total
<b>Wetted parts:</b>	SS316/V4A, PTFE, Viton, POM and Silicon
<b>Material Plunger:</b>	SS316/V4A
<b>Material seals:</b>	Viton & PTFE
<b>Water temp:</b>	Max 35°C optional 50°C
<b>Max Pressure:</b>	2,5 Bar optional 5 Bar
<b>Min Pipe DN:</b>	80 mm if smaller, use special EFCON® cross fitting
<b>Outlet DN:</b>	14 mm
<b>Sample vol.:</b>	50 ml fixed volume
<b>Actuator:</b>	Pneumatic
<b>Air supply:</b>	6-8 bar conditioned
<b>Protection class:</b>	IP 65
<b>Encl. cylinder:</b>	Front SS316 with aluminum cylinder
<b>Air connection:</b>	8 mm / 1/4" coupling
<b>Activation time:</b>	± 5 sec
<b>Resp. contact:</b>	Optional
<b>Valve:</b>	5/2 Valve
<b>Power supply:</b>	24 VDC ±5% / 0,13 A
<b>Current:</b>	0,13 A
<b>Ambient temp.:</b>	0,1°C / 40°C
<b>Zone:</b>	Not in EX zones



## The EFCON® ILS Guillotine

This is an automatic fixed volume sampler for use on 100 % filled and pressurised effluent lines.  
The sampled media must be liquid, and free of air / hard solids.

Designed for sampling of (raw) wastewater, the Efccon Guillotine sampler works with a maximum process pressure of 2.5 Bar and optional up to 5 Bar. This sampling method complies to EN ISO 5667-2, EN ISO 5667-10 and NEN 6600-1 and is equipped with a pneumatic actuator (6-8 bar).

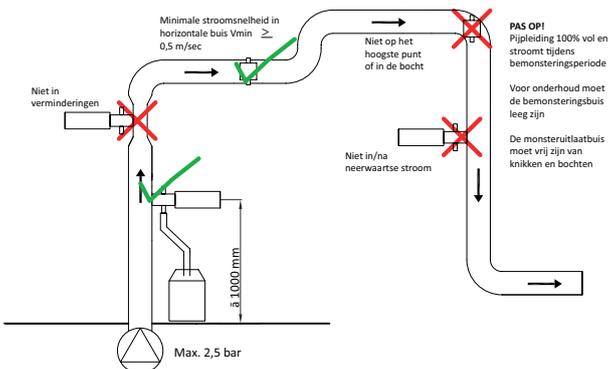


## Jazz controller:

<b>Display:</b>	2 lines, 16 characters, 16 keys Totalizer 3000000,0 maz (auto reset)
<b>I/O hardware:</b>	8 digital inputs, 4 analog inputs
<b>Quick buttons:</b>	Manual sample, next container, reset
<b>Inputs:</b>	Flow Pulse, flow current 4-20mA, 2x programmable digital input
<b>Outputs:</b>	2x programmable relay output
<b>Sample interval:</b>	Volume, Time or Batch
<b>Interval range:</b>	0,1...2500,0 m3/sample 2...2500 minutes/sample
<b>Max Error samples:</b>	0...999
<b>Sample volume:</b>	20...250ml
<b>Vacuum settings:</b>	Purge, Suction & dose time 1...99 sec.
<b>Turn time:</b>	Clock time (RTC) or time interval
<b>Container config:</b>	1...24 containers, 0,1...99 liter
<b>Password settings:</b>	Yes
<b>Flow signal:</b>	Pulse / Current / pulse + current
<b>Pulse range:</b>	0,1...1000m3
<b>Current range:</b>	1...3600 m3/h
<b>Input options:</b>	PRG on/off, Start PRG, Stop PRG, take sample, next container & start cool unit
<b>Output options:</b>	General alarm, sample alarm, sampling active, sample OK, sample error, 1m3 pulse, 0,1m3 pulse, containers full
<b>Communication:</b>	Modbus RTU optional

## Installation instructions:

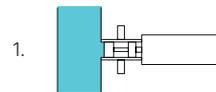
- Place sampler in a 100% filled pipe free from air inclusion and in horizontal piping a minimum flow velocity of 0,5/s.
- Ensure there is enough height for the silicon hose which enters the inlet in the enclosure.
- Do not place the sampler in turns or reduces.
- For safe maintenance and reparations the sample pipe needs to be empty.
- Don't place the sampler in or after a downward flow.
- Maximum pipe pressure 2,5 bar (optional 5 bar)
- Ensure the sampler doesn't stick in the piping in standby position.



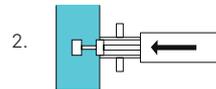
## Vision controller:

<b>Display:</b>	8 lines, 128x64 2,4" display, 20 keys
<b>Settings:</b>	Basic functions almost the same as the Jazz with extra options. Better HMI and used in customized applications
<b>Sample settings:</b>	Interval by day of the week
<b>Distributor settings:</b>	Selectable day of the week
<b>Pump controller:</b>	Optional (for ILS samplers only) 4-20mA level sensor input 1 or 2 pump controller with alternating function High/low level & overflow setting
<b>Logging:</b>	2000 log lines for daily/cycle totalizer 2000 log lines for time interval logging Data logging to micro SD-card Optional: Extra analytical values
<b>Calendar sampling:</b>	Program sampler to sample Full 1 year on specified calendar days.
<b>Open channel flow measurement:</b>	Optional: Bubbler or ultrasonic open channel flow measurement: Straight weir Venturi Formula 1: $Q=C \times (R)h^3 \times 3600$ Formula 2: $Q=C \times h_e \times 3600$ Data table over 24 points
<b>Communication:</b>	Optional: Ethernet, modbus & profibus
<b>Software:</b>	Free supporting software from Unitronics

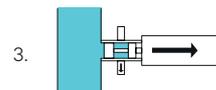
## Operational principal:



The sampler is in standby position, the plunger has its cavity above the outlet.



When the actuator is driven by compressed air the plunger will shoot inward the piping and the cavity will fill with medium.



After several seconds the plunger shoots back in the enclosure and medium from the cavity drains through the outlet. After discharging the sampler is back in standby position.

## Distributed by:

**EFCON® Water B.V. | www.efconwater.com**

Ambachtstraat 4a | 4231 DP Meerkerk | The Netherlands | Phone : +31 347 342 777 | info@efcon.nl

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