



- Cooling water monitoring
- Waste water monitoring

The chemical industry usually uses river water for cooling. A process water stripper is used to detect any impurities in the cooling water (caused by a leak in the heat exchanger) early on. A core element here is the stripping module STM001, made by CGS. This module is used when the impurities are compounds that are "strippable". This refers to a characteristic whereby a substance dissolved in water can be expelled by bubbling a gas (air or nitrogen) through the water. Usually, organic compounds with no polar groups and low vapour pressures are easily strippable.

The stripping module consists of a tube that can be expanded from 29 mm to 53 mm. The smaller diameter is located at the bottom of the tube, with process water flowing through it. The upper part is wider and contains a demister. The gas inlet and gas outlet side of the stripping module can be opened using clamp/flange connections. This allows for easy cleaning of the inside of the module.

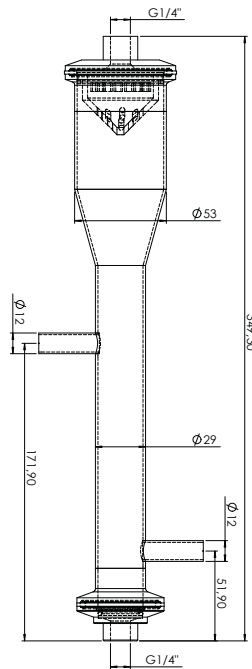


Digital version at:
[www.cgs-company.de/
 downloads/MDZ_E_D_STM001.pdf](http://www.cgs-company.de/downloads/MDZ_E_D_STM001.pdf)

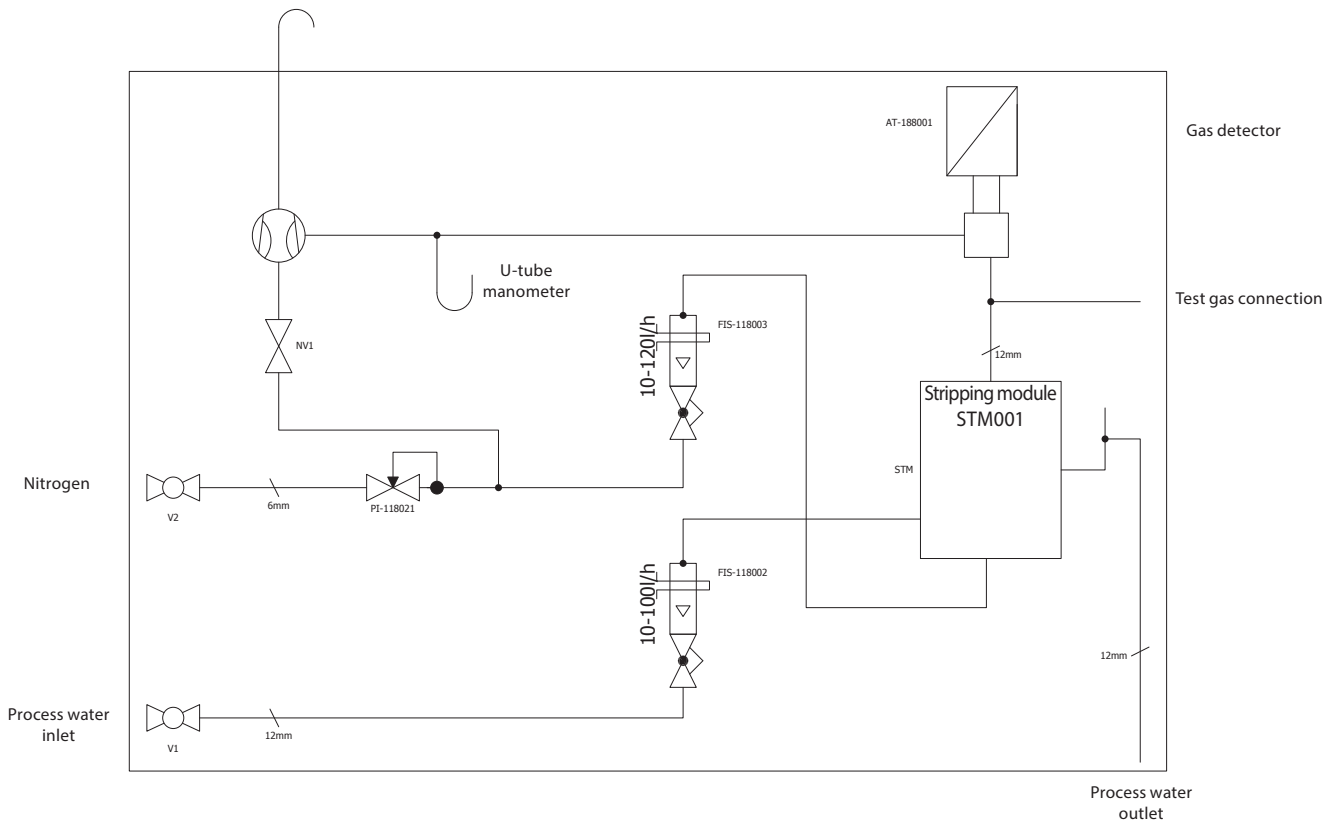
Technical specifications

- Flow rate
 - Stripping gas: max. 120 l/h (N₂ or air)
 - Water: max. 100 l/h
- Pressures
 - Stripping gas: approx. 1.2 bar
 - Sample inlet: approx. 30 mbar
 - Sample outlet: pressureless
- Connections
 - Water: 12 mm tube
 - Gas: G1/4"
- Sealing material: NBR; PTFE
- Filter frit: 10 µm; 5 µm or 2 µm optional
- Filling agent: Raschig rings (glass)
- Housing material: Stainless steel 1.4301
- Dimensions (length): 350 mm
- Weight: 1.45 kg

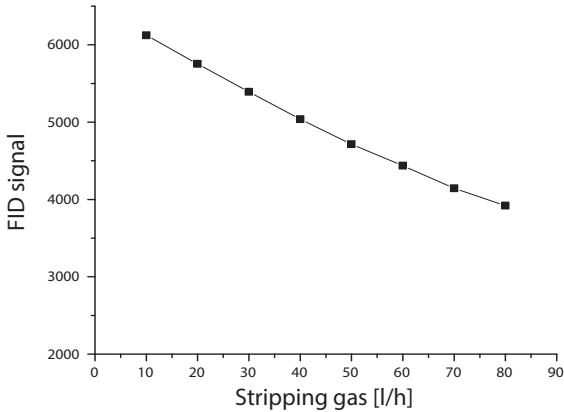
Dimensional drawing



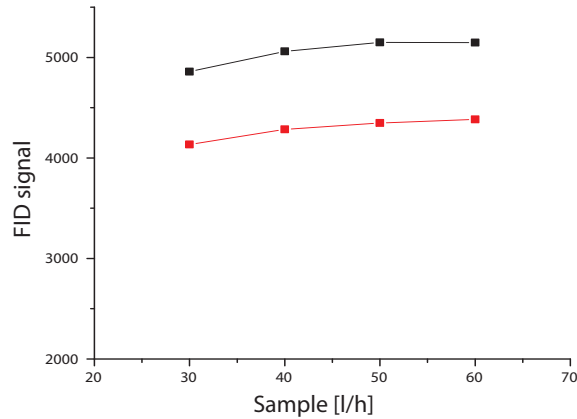
Gas flow diagram or sample application



Graphics



Effect of stripping gas:
Water contaminated with benzene (71 ppm) was directed through the stripping module at 30 l/h, and the gas flow was being gradually increased. An FID was used as a detector.



Effect of sample flow gas:
The flow of benzene contaminated water (71 ppm) was being alternated over a range of 30 to 60 l/h. The red line shows the behaviour at 60 l/h for stripping gas, the black line at 30 l/h.

Ordering number

Item number	Name
1036305	Stripping module STM001

Spare parts/accessories

Item number	Name
1016571	Two-joint clamp; D50.5; Stainless steel
1016572	Two-joint clamp; D64; Stainless steel
1034707	Clamp cover gasket; D50.5; NW25; NBR
1034708	Clamp cover gasket; D50.5; NW25; PTFE
1034710	Clamp cover gasket; D64; NW50; NBR
1034711	Clamp cover gasket; D64; NW50; PTFE
1013899	Sintered metal frits; filter frits; D=25.4 mm; filtration grade 10 µm
1013898	Sintered metal frits; filter frits; D=25.4 mm; filtration grade 5 µm
1013897	Sintered metal frits; filter frits; D=25.4 mm; filtration grade 2 µm
1015473	Seeger retaining ring; for drilled hole; D=26 mm; A2
1036318	Wire mesh; round; D=50 mm; stainless steel; mesh size=1.2 mm; thickness=0.4 mm; 1.4301
1035062	Raschig rings made of glass; 5x5 mm
1019026	Straight male connector; 6 mm tube connector - 1/4" ISO-AG
1018682	Straight male connector; 1/4" tube connector - 1/4" ISO-AG
1018784	Straight male connector; 12 mm tube connector - 1/4" ISO-AG
1020857	Straight male connector; 1/2" tube connector - 1/4" ISO-AG
1036474	O-ring set (10 pcs.); FKM; 22.00 x 2.00 mm (for sintered metal frits)
1036542	Seal disc set (10 pcs.); Cu for 1/4" ISO parallel thread RS



STRIPPING MODULE

Type STM001

