

HOFGAS[®] - APM

Gas Treatment Plant for Recovery

The **HOFGASⁱ - APM** is a complete pump and flare station for the safe and economic treatment of gas from anaerobic fermentation.

Apart from the plant components, a detailed regulation and operational concept is supplied for the specific adaptation to the particular process. In particular, the discharge pressure for recovery is regulated and the signal exchange between all involved components is supported.

The flare **HOFGAS^u - IFL4c** is used for the surplus gas. It offers controlled high temperature combustion with concealed flame.

The pump station is preassembled on a steel frame or in a container and, as with the flare, is tested at the factory.

The pump and flare station from Hofstetter as the ideal interface between fermentation and combined heat and power station.



Pump and flare station in container **HOFGAS[®] - APM 2000**

- ✓ Gas treatment for utilisation
- ✓ Customer-specific plant design
- ✓ Detailed regulation and operational concept
- ✓ Clearly defined interfaces
- ✓ Compact construction method
- ✓ Easy plant assembly
- ✓ Easy operation and maintenance
- ✓ High safety standard

General specifications

Gas flow rate	600 - 4'000 Nm ³ /h
Burner capacity up to	32'000 kW
Blower pressure rise	160 mbar
Methane concentration	40 - 60 Vol. %
or	60 - 75 Vol. %
Combustion temperature	1'000 - 1'200 °C
Residence time	> 0.3 s
Turn down ratio	1 : 5
Expected sound pressure level at full load (at 15m distance and 2m height)	< 69 dB(A)

Safety features

- EEx motor
- Flame arresters
- Slam shut valve
- Burner control with UV detection

Site preparation

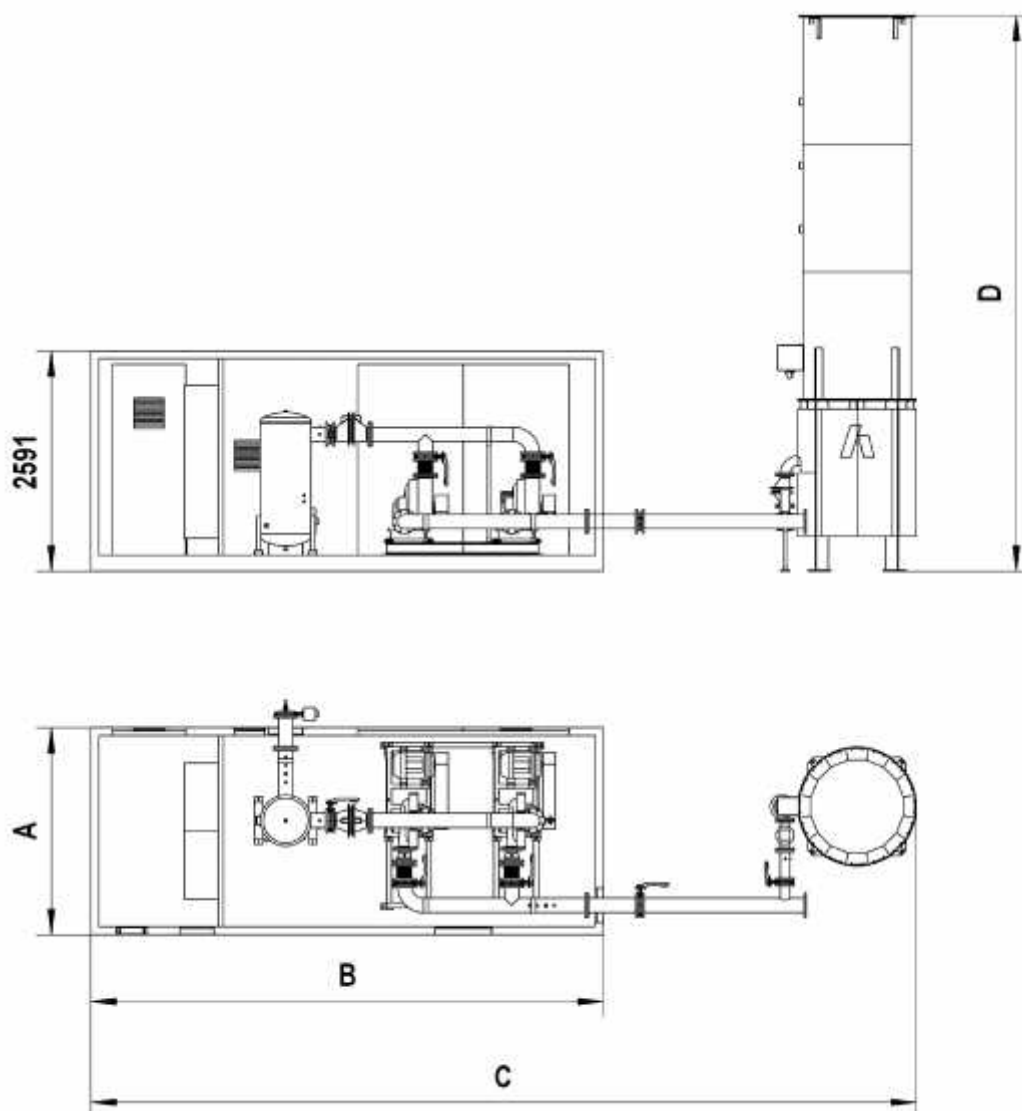
- Preparation of location (fence, access road etc.)
- Pre-dewatering
- Foundation
- Electricity supply
- Pipeline connection
- Condensate disposal

Options

- Gas analysis system CH₄, CO₂, O₂, H₂S
- turn down ration 1:10
- Telemonitoring

More options are available on request

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Specification for standard units

HOFGAS ⁱ -	Gas flow rate (max.)	Burner capacity (max.)	Flange connection DN/PN	Power of el. motor kW	Fuse protection A	Suction pressure mbar	Supply pressure mbar	Blower pressure rise mbar	Dimension A mm	Dimension B mm	Dimension C mm	Dimension D mm	Weight (approx.) kg
	Nm ³ /h	kW											
APM 600	600	4'500	100/16	o.r.	o.r.	±10	100	160	2'500	6'100	10'200	7'000	7'700
APM 1000	1'000	7'500	150/16	o.r.	o.r.	±10	100	160	2'500	6'100	10'400	7'000	8'100
APM 1500	1'500	11'250	150/16	o.r.	o.r.	±10	100	160	2'500	12'200	17'500	8'200	14'900
APM 2000	2'000	15'000	200/16	o.r.	o.r.	±10	100	180	2'500	12'200	17'700	8'100	15'500
APM 2500	2'500	18'750	200/16	o.r.	o.r.	±10	100	180	2'500	12'200	18'200	8'100	19'000
APM 3000	3'000	22'500	250/16	o.r.	o.r.	±10	100	180	2'500	12'200	18'500	8'300	20'000
APM 4000	4'000	30'000	250/16	o.r.	o.r.	±10	100	180	2'500	12'200	19'000	8'100	21'000