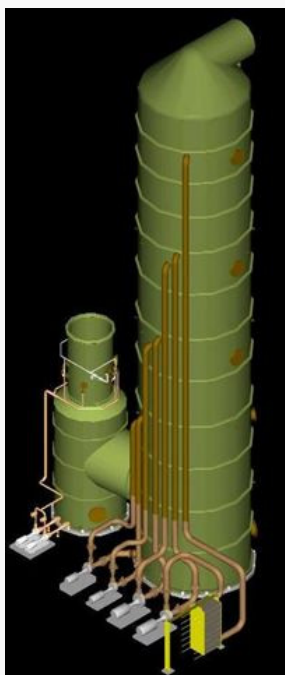


Dioxin and/or Mercury Removal in Package Units

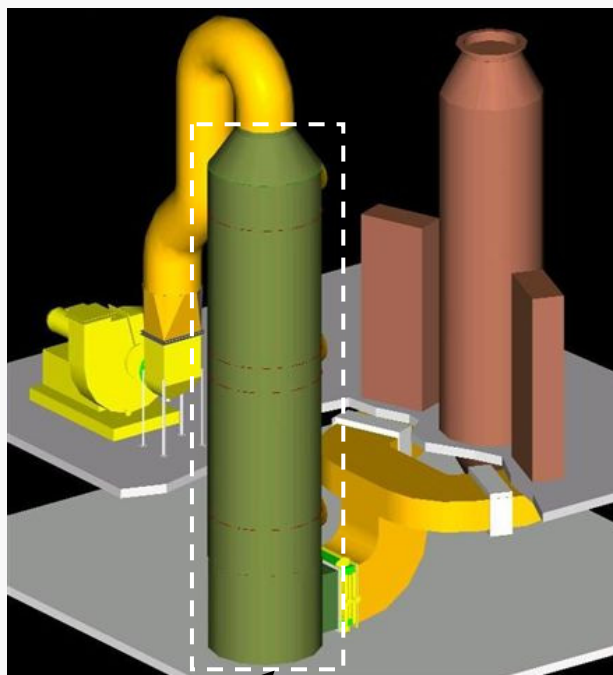
Technical information

Götaverken Miljö offers standardized gas treatment package unit supplies based on our unique technologies ADIOX[®] for dioxin removal and/or MercOx for mercury removal. The units are compact and designed for minimum on site erection works.

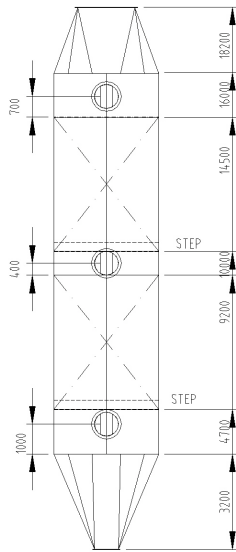
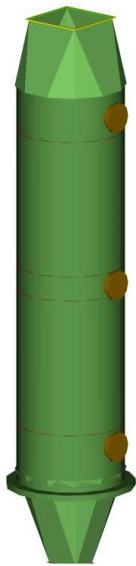
Advantages are **high performance, high availability, low maintenance requirement, flexible layout, low total cost** and a **minimum of residues** as the packing material is incinerated after use, also destroying the captured dioxins.



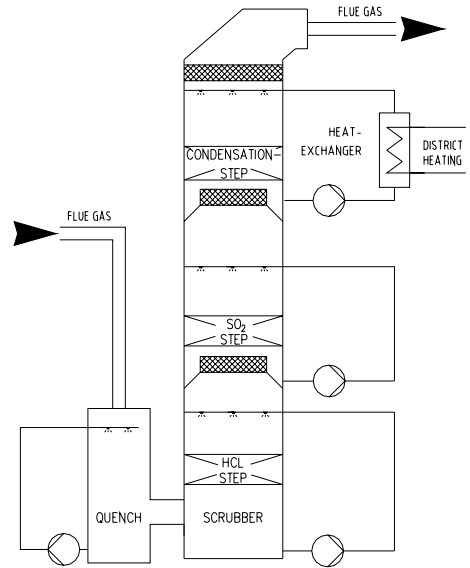
Wet multistage scrubber absorber for removal of dioxin combined with e.g. HCl, NH₃, SO₂, Hg separation and/or integrated energy recovery.



Dry static ADIOX[®] absorber for dioxin removal.



Example: ADIOX[®] absorber



Example: Multistage ADIOX[®] scrubber

	Dry ADIOX [®] absorber	Semidry ADIOX [®] absorber (saturated gas)	Wet ADIOX [®] scrubber
Pollutants removal:	Dioxins	Dioxins	Dioxins and e.g. Hg, HCl, NH ₃ , SO ₂ , HF (and energy recovery)
Gas flow direction:	Vertical up or downward flow	Vertical up or downward flow	Vertical upward flow
Gas flow rate (typical):	Between 1000 Nm ³ /h and 200 000 Nm ³ /h	Between 1000 Nm ³ /h and 200 000 Nm ³ /h	Between 1000 Nm ³ /h and 200 000 Nm ³ /h
Gas temperature:	Normally at 60 °C to 90 °C, reheated approx 20 °C from dew point	Saturated (wet) gas, normally at 40 °C to 80 °C	Saturated (wet) or condensing gas, normally at 40 °C to 80 °C
Geometry:	Standard design, tower shaped	Standard design, tower shaped	Tower shaped
Dimensions (typical):	Purpose built: Diam. between 0,5 m and 7 m. Height 4 to 15 m	Purpose built: Diam. between 0,5 m and 7 m. Height 4 to 15 m	Purpose built: Diam. between 0,5 m and 7 m. Height 10 to 35 m
Standard material:	FRP (Fibre Reinforced Plastics)	FRP (Fibre Reinforced Plastics)	FRP (Fibre Reinforced Plastics)

Performance and design: The required removal efficiency of the units, for each specific pollutant, are design parameters that will define the overall dimensions and number of stages. Normally the units are designed to meet the EU waste incineration.

Typical supply package:

- **Basic process design** of absorber or scrubber system. For wet scrubbers, process water circulation systems and possibly related subsystems, such as water treatment systems, may be included.
- **Detailed design** of absorber or scrubber.
- **Material supply** of scrubber or absorber including Adiox tower packing and Adiox droplet separators.

