

Solvent Washing Units | Corrosive Solvent Wet Washing

GWS410

Maximum flow rate 15L/min

The world's first solvent washing unit, mainly used for exhaust gas treatment of spray dryers.

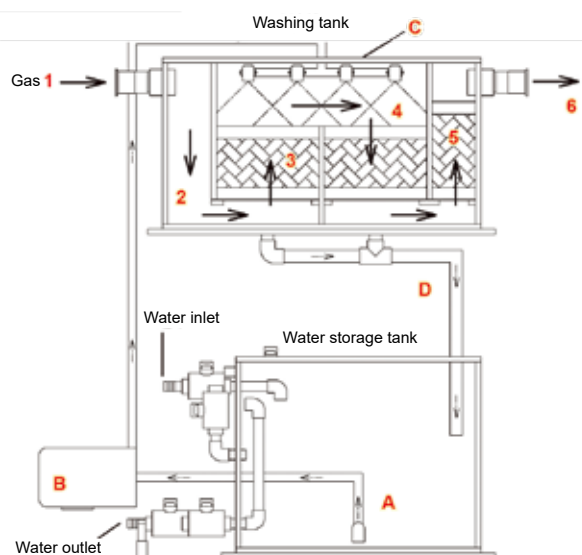


GWS410 captures pollutants in harmful gases using water or alkaline solution at atmospheric pressure and room temperature. GWS410 is designed with a washing tank—when solvent vapors enter the washing tank, sprayed water adheres, cleans, and neutralizes solvent particles, the treated liquid then returns to the bottom of the tank.

Features

- Using water or alkaline solution.
- Eliminate highly irritating solvents.
- Reduce rust and corrosion of equipment.
- Easy to operate.
- Easy to maintain—just monitor the pH level of water in the water storage tank and the state of the molecular sieve.

System diagram

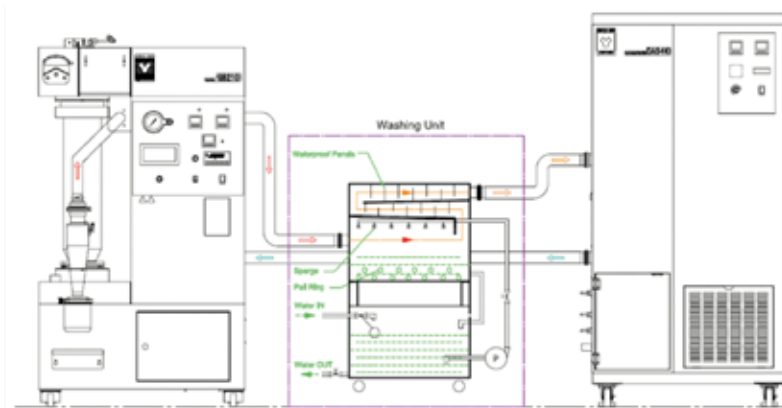


Specifications

Model	GWS410
System	Flow-type spraying washing type
Circulating liquid	Water/alkaline solution
Circulation pump	Small magnetic circulation pump
Maximum flow rate	15L/min
Maximum lift	8m
Harmful gas cleaning method	Pall ring filling + spraying washing
Water storage tank capacity	35L
Safety device	Leakage protection circuit breaker
Power supply	200-230V~0.35-1.0A
Dimensions (WxDxH)	800×500×1230 mm
Weight	Approx. 120kg

*Dimensions do not include protrusions.

Connection diagram



Spray Dryer + GWS410 Organic Solvent Washing Unit + Organic Solvent Recovery Device

- (1) Harmful gases exiting the spray dryer ① enter the washing tank unit.
- (2) Through the cleaning tank unit ②, harmful gases come into contact with the filling material ③ and the cleaning liquid ④ that is sprayed from the nozzle, allowing harmful substances to be neutralized by the cleaning liquid.
- (3) Through multiple filling chambers, the gas passes through the smoke collector ⑤ to prevent the cleaning liquid from being discharged.
- (4) The gas, under the influence of the fan, enters the organic solvent recovery device as clean air exhaust ⑥.
- (5) Cleaning liquid A enters the washing tank from the water storage tank through circulation pump B, is dispersed onto the filling material ③ via spray nozzle C, and returns to the water storage tank's circulating water tank through piping D.