

Pilot scrubber plant for mineral process gases



OBJECTIVES

- To detail design and construct a skid mounted pilot scrubber plant for the treatment of process gases.
- With an ozone generator and injection system, to sanitise the gases prior to entering the scrubber columns.
- Utilising activated carbon slurry for the scrubber wetting medium.
- Including an on-board Supervisory Control and Data Acquisition System.
- All pumps, piping systems, carbon batching and agitator vessels together with associated air treatment systems for the ozone generator .

INTRODUCTION

Control and Thermal Engineering were approached to detail design and manufacture a pilot scrubber plant for odour reduction from a mineral process gas stream.

Without going into the actual process, the pilot plant included, for the purpose of sanitation, an ozone injection system together with associated air filters and driers then on to an ozone generator and ozone mixing system.

Two scrubber columns were used in series, these utilised an activated carbon slurry as the wetting medium.

Facilities for two separate carbon slurry batching and agitating vessels were required together with their associated wetting heads, agitators and delivery and return pumping systems.

The rig also included an on-board SCADA (Supervisory Control and Data Acquisition) system collecting data from a multitude of locations on the rig in order to monitor and adjust various rig operations.

Final rig size - 2900 x 3700 x 3500mm high.

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