

ABSTRACT

MULTI-LEVEL GAS SCRUBBER WITH MULTIPLE FLOODED SCRUBBER HEADS

5 The present invention relates to a wet scrubbing head design whose horizontal orientation
and flooded operating characteristics allow complete wet scrubbing at multiple interaction zones
each with different neutralizing reagents. The capacity for multiple scrubbing zones improves
overall pollutant removal efficiency by adding polishing interaction zones for particulate and acid
gas removal systems or by broadening the range of pollutants being removed by operating with a
different neutralizing solution or a combination of these operating conditions. The flooded head
10 design approach allows a single scrubber to accomplish high levels of removal efficiency for
multiple pollutants which reduces cost, and footprint interaction complexities of the multiple
devices it replaces. Flooded head scrubbers have application in combustion flue gas pollutant
removal and in chemical and industrial applications that generate dust, odors and acid gases.

The most suitable drawing: Fig. 2.