

Research Name	Development System High Pressure Wet Scrubber for Dust Industrial	
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### Abstract

This research aims to develop the wet scrubber which could not trap small dust particles that are smaller than one micron and dust iron. Previous studies showed that water stress affects the efficiency of trapping dust particles. As a result, we have thought to produce high pressure wet scrubber for study and hope to be useful for others in the future. The research methods, we study in profound detail and relative information, and purchase finished parts. Accordingly, the high pressure wet scrubber is produced in a high performance to capture. Using water as a dust trap, the dust particles which are smaller than one micron in the air would be passed to a rotational bucket. The results of the experiment conclude that the high pressure wet scrubber is suitable for small particles. By using aluminum powder in any (100, 80, and 40 micron) in the experiment, more than 95% of the dust particles was trapped. Moreover, the higher water pressure makes the treatment more effectively by saving water also.

**Keyword :** Wet Scrubber, High Pressure , Dust