

Shimi Research Center Pvt. Ltd



SHIMI RESEARCH CENTER PVT. LTD

Several years of extensive experience in design and manufacture of environment friendly technologies, has made Shimi Research Center Pvt. Ltd the prime choice of leading companies across various sectors both in India and overseas. An ISO 9001:2008 company, Shimi Research Center Pvt. Ltd is well known for delivering the highest levels of performance, excellence and quality in all its products and services. Our product portfolio stands out because of the extensive range of tailor made pollution control equipment and remedial solutions for pollution, waste management, recycling technology and process control offerings.

VENTURI SCRUBBER

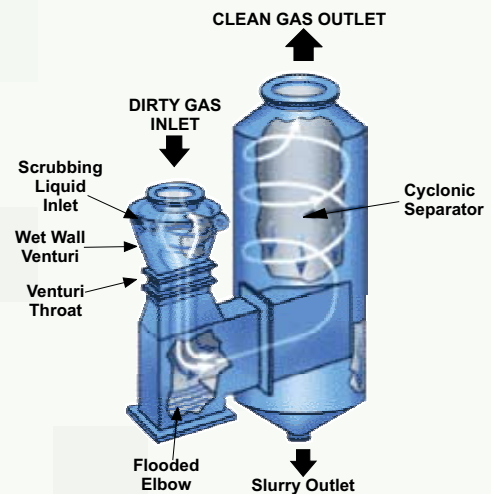
A Venturi is a tube of reducing throat, used to increase the pressure of the incoming air and increase the speed of the flowing gas. Removal of particulate matter and gaseous impurity from the flue gas is achieved using a system called Venturi Scrubber. In this process the system is designed to effectively use the energy from the inlet gas stream to atomize the liquid being used to scrub the gas stream.

A Venturi scrubber consists of three sections: a converging section, a throat section, and a diverging section. The inlet gas stream enters the converging section and, as the area decreases, gas velocity increases. Liquid is introduced either at the throat or at the entrance to the converging section.

The inlet gas, forced to move at extremely high velocities in the small throat section, shears the liquid from its walls, producing an enormous number of very tiny droplets. Particle and gas removal occur in the throat section as the inlet gas stream mixes with the fog of tiny liquid droplets. The inlet stream then exits through the diverging section, where it is forced to slow down.

Venturi scrubber finds wide applications in industries such as:

- » The chemical industry for the removal of dust and aerosols
- » The Metallurgy industry for several types of degasses
- » Waste combustion installations
- » Gasification Processes
- » Potato Industry for the disposal of starch
- » Glass Industry
- » Foundries
- » Sinter Processes
- » Dust Processes
- » Manure Production
- » Pharmaceutical Industry
- » Plastic Industry
- » Aluminium alloy manufacturing units
- » Aluminium die casting units
- » Non ferrous metal processing units
- » Desulfurization of combustion flue gas



BENEFITS

- Convenient handling of particulate matter.
- Efficient Absorption of Gaseous Components
- Low maintenance
- No Mechanical Components
- Ease of operation
- Works at high temperatures as well

At Shimi Research Center, we strive to provide our customers with high quality environment solutions. Our team of highly experienced and talented professionals work with you to deliver a solution that is best suited to your organizations needs.

An association with Shimi Research Center Pvt. Ltd guarantees:

- » **State of the art equipment**
- » **Higher system longevity**
- » **Exclusive – one of a kind- Tailor Made Solutions to match all your needs**
- » **Flexible designs to suit variation in available space**
- » **Provision of adjustable throat for variable air quantity**
- » **High Efficiency (96% and above) with Low Pressure Drops**
- » **Low purchase costs**
- » **Low Maintenance expenditure**
- » **User friendly and easy to handle constructions**
- » **Provision of extensive safety features for smooth and trouble free operation**
- » **A team of knowledgeable professionals dedicated solely to your project**
- » **Dependable Customer Support**
- » **Free 1 year warranty**
- » **Regular system upgrades offerings by our R&D Division**

Our system capacity ranges from 1000 CMH to 200000 CMH. The running cost of our systems is depended on the application and capacity. As a rule of thumb, treatment of 1.0 CMH contaminated flue gas requires 1.5 W electricity. Available in MS, SS-304, SS-316.

The Shimi Research Center Promise:



OUR ESTEEMED CLIENTS

- » HONDA SIEL POWER LTD., Greater Noida, India; 12000 CMH Double Stage Spray Towers
- » CENTURY METAL RECYCLING PVT. LTD., Palwal, India; 25000 CMH & 750000 CMH Venturi scrubbers
- » OSWAL ELECTRICALS, Faridabad, India; 15000 CMH Double Stage Spray Tower
- » CENTURY METAL RECYCLING PVT. LTD., Haridwar, India; 25000 CMH Venturi Scrubber
- » CENTURY METAL RECYCLING PVT. LTD., Gurgaon, India; 30000 CMH Venturi Scrubber
- » CENTURY METAL RECYCLING PVT. LTD., Haridwar, India; 35000 CMH Venturi Scrubber
- » MET TRADE INDIA LTD., Gandhidam, Gujarat, India; (20000 CMH x 7) Venturi Scrubbers
- » OSWAL DIE CASTING PVT. LTD., Faridabad, India; (15000 CMH x 2) Double Stage Spray Tower
- » ALLIED RESINS & CHEMICALS LTD., Kolkata, India, 25000 CMH Venturi Scrubber
- » SHREE BALAJI ALUMINICAST PVT. LTD., Ludhiana, India; 30000 CMH Venturi Scrubber
- » VIBHA OVERSEAS EXIM PVT. LTD., Pune, India; 50000 CMH Venturi Scrubber
- » CENTURY METAL RECYCLING PVT. LTD., Bhiwadi, India; 50000 CMH Venturi Scrubber

WE ALSO DEAL IN

- » Dust collection systems: Cyclones, Multi-Cyclones, Bag House (Pulse Jet Bag Filters).
- » Wet scrubbers such as multi-stage spray tower, Venturi scrubbers, packed bed towers and other custom made combinations.
- » Waste water treatment such as Effluent Treatment Plant (ETP), Sewage Treatment Plant (STP)
- » Blowers up to 2,50,000 CMH and pressure of 1,200 mmWG.
- » Pumps: High pressure pumps in SS-304, SS-316, PP and GFPP.
- » Fumes exhaust systems.

CONTACT

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