

Hydro ejector



Waste water



Drinking water



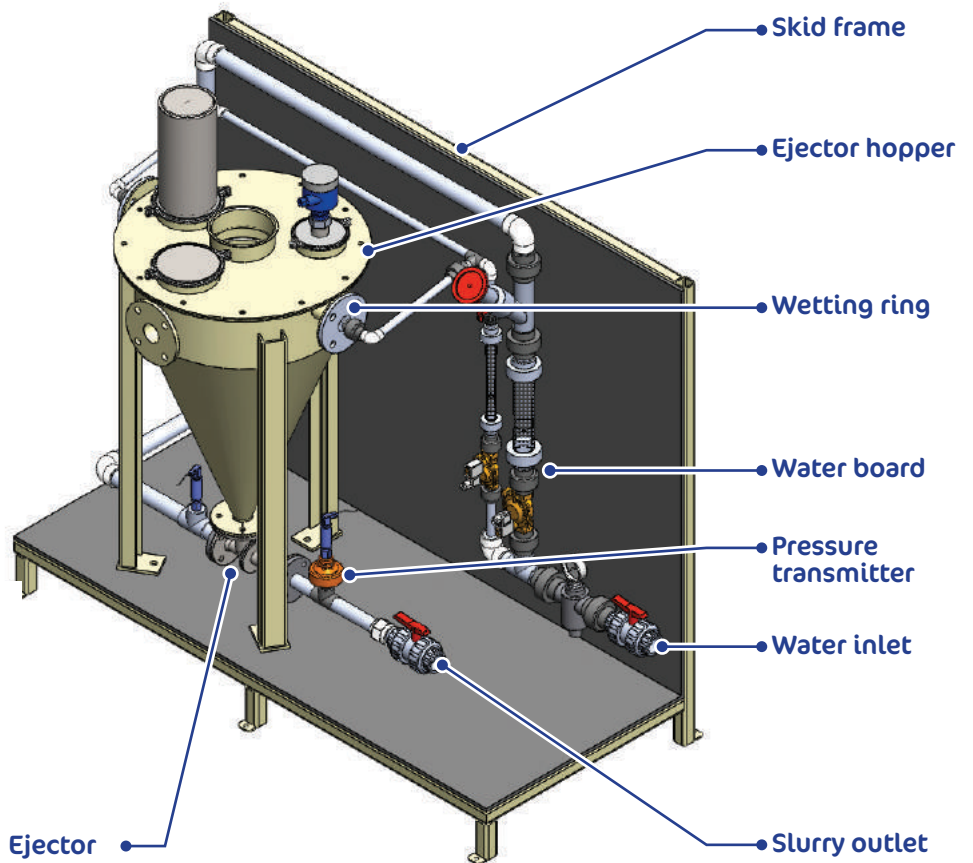
Flue gas

Hydro ejector

Designed to transfer microsand, limestone, powdered or granulated activated carbon in liquid solution, Sodimate has developed its hydro-ejector based on venturi effect.

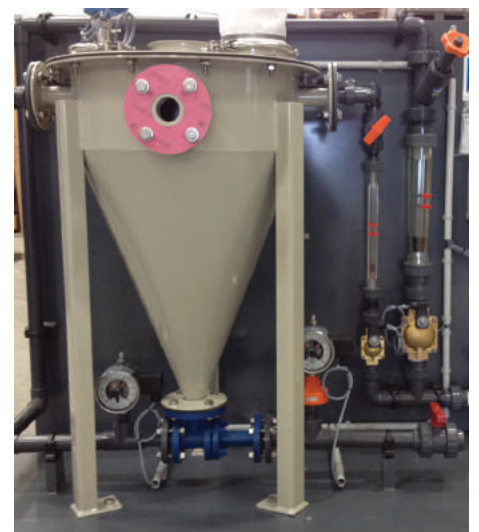
Such solution enables to reduce electrical consumption as service water is used as the transfer medium for conveying the powder material.

The product in suspension is then transferred, with possible rises, on length which can reach dozens meters.



Advantages

- Long distance transfer with elevation can be achieved
- Dust free handling
- Low energy consumption
- Can be mounted on a complete skid frame fitted with water board and necessary instrumentation





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Operation

Driving water is put into service in the piping with reduction of diameter in order to generate an acceleration of the carrying fluid. This acceleration creates a negative pressure upstream the powder inlet, which enables powder injection into the liquid without dust emissions.

The conical hopper, upstream the ejector, in which powder is injected, is fitted with a wetting ring designed for a faster contact phase between powder and water.

The skid is supplied with all necessary instrumentation such as pressure transmitter, flowmeter and regulation valve.



Specificities

- Transfer without electrical consumption
- Can be adapted to existing process
- Dust free unit

Options

- Contact parts made of stainless steel
- ATEX instrumentation
- Skid mounted unit



Example of transferred products

Powder activated carbon

Granular activated carbon

Limestone

Microsand

Ejector Size

Powder throughput

1

500 l/h max.

2

1000 l/h max.

3

2 500 l/h max.

4

5 000 l/h max.