



FBL INDUSTRIAL SERVICES

A Company of FBL Group

Engineering Divisions

Industrial Boilers (Coal, Bio Mass, Gas)

Industrial Power Engineering

Industrial Equipments & Plants

Industrial Water Treatment Plants

Industrial Engineering & Automation



LAPAR
Lapar Control Valve



Bag Filter:

A Bag filter is an air pollution control device that removes particulates out of air or gas released from commercial processes or combustion of different fuel.

Working Principle:

The inside of a large fabric filter is divided into several compartments. Each compartment contains several filter bags in which filter cloth sewn into cylindrical shapes is installed. A hopper is provided in the bottom of the compartment to collect the dust removed from the filter bags.

The bag filter dust collection principle is that the dust layer that adheres to and is deposited on the surface of the filter bag and the interior of the filter cloth (the primary dust layer) filters and collects the dust contained in the process gas.

Normally the filtration velocity of the process gas passing through a filter cloth is about 0.3-2 m per minute, and the pressure loss is 1-2 KPa. As the dust layer collected on the surface of the filter cloth becomes thicker, the pressure loss of the filter cloth increases, so the collected dust is intermittently removed. In most cases the dust collection efficiency of fabric filters is 99% or higher, and the dust concentration at the outlet is less than 10 mg/m³N.

It is important to select the filter material of a filter bag to suit the gas temperature, humidity, gas composition, and dust characteristics. The life of a filter bag is several years, but varies greatly depending on the gas and dust characteristics.

The equipment cost of a bag filter is lower than that of an electrostatic precipitator, but the maintenance cost of replacing the filter bag, etc., and the operating cost of the system fan to compensate for the pressure loss is somewhat larger. Fabric filters are widely used as the dust collection systems for industrial processes with a medium or low quantity of process gas.

For better understanding we can see the diagram on next page.



HEAD OFFICE:

571-D, First Floor, Canal View Housing Society,
Near Gate # III, Lahore - Pakistan.
Tel: +92 42 35962808, 0345 8188 915
Email: fbl.group@gmail.com
Website: www.fblgroup.com.pk

ENGINEERING WORKS:

10 Km, Mirza Chowk, Off Moza Tarogill
Near Beacon House National University,
Raiwind Road, Lahore - Pakistan.
E-mail: tarik.fbl@gmail.com
Tel: +92 300 8400 907, 0300 4496 858

SALES OFFICE:

1st Floor, 42- Khan Market,
Brandreth Road, Lahore.
Tel: +92 42 37637209, 37658483
E-mail: sales@fblgroup.com.pk
Website: www.fblgroup.com.pk



FBL INDUSTRIAL SERVICES

A Company of FBL Group

Engineering Divisions

Industrial Boilers (Coal, Bio Mass, Gas)

Industrial Power Engineering

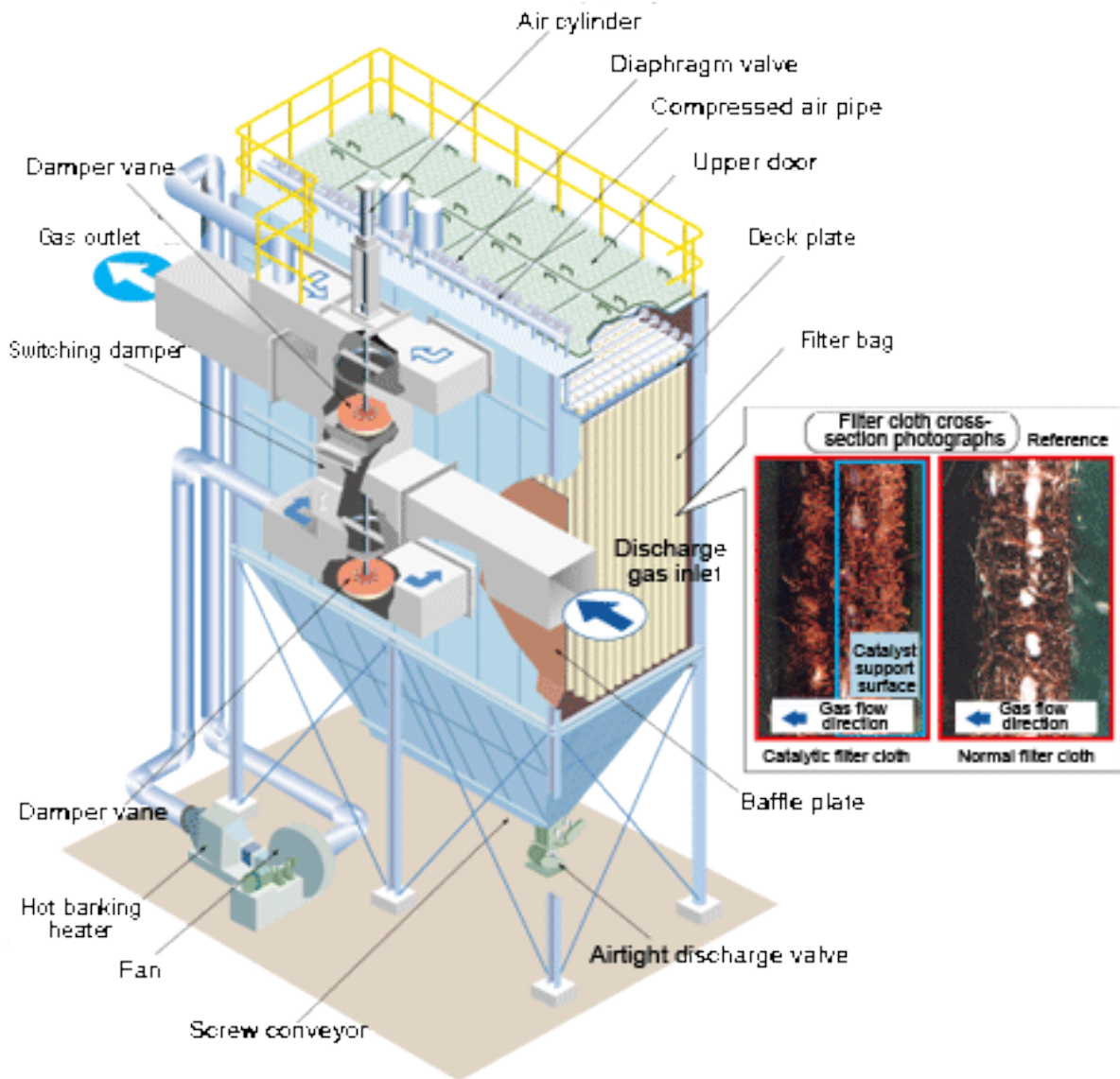
Industrial Equipments & Plants

Industrial Water Treatment Plants

Industrial Engineering & Automation



LAPAR
Lapar Control Valve



HEAD OFFICE:

571-D, First Floor, Canal View Housing Society,
Near Gate # III, Lahore - Pakistan.
Tel: +92 42 35962808, 0345 8188 915
Email: fbl.group@gmail.com
Website: www.fblgroup.com.pk

ENGINEERING WORKS:

10 Km, Mirza Chowk, Off Moza Tarogill
Near Beacon House National University,
Raiwind Road, Lahore - Pakistan.
E-mail: tarik.fbl@gmail.com
Tel: +92 300 8400 907, 0300 4496 858

SALES OFFICE:

1st Floor, 42- Khan Market,
Brandreth Road, Lahore.
Tel: +92 42 37637209, 37658483
E-mail: sales@fblgroup.com.pk
Website: www.fblgroup.com.pk