



tenova
TAKRAF



Simatek Reverse-Jet Bag Filter 4T

Optimal solutions for Air Environmental Control

TENOVA is a worldwide supplier of advanced technologies, products and engineering services for the iron & steel and mining industries.

SIMATEK REVERSE-JET BAG FILTERS 4T

Simatek Low Pressure Reverse Pulse Bag Filters enable economic collection of fumes and dust at high filtration rates, utilising absorption techniques to remove acid gases, heavy metals and dioxins from flue gases.

The SimPact 4T filter is an economic solution for dust collection in industrial plants, with the investment often paid back in terms of product recovery.

DESIGN

The SimPact 4T filter is designed to operate with dust explosion vents, as stipulated in the German VDI 3673 guidelines.

Design of the filter housing and the inlet zone ensures a smooth flow of coarse particles as well as fine dust particles into the filter.

The 4T concept of combining the ideal filter unit with any of the five inlet designs, renders the solution suitable to almost any separation job.



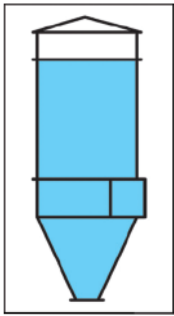
Tenova Mining & Minerals is a total integrated solutions provider to the global mining, bulk materials handling and minerals beneficiation and processing sectors, offering innovative technological solutions and full process and commodity knowledge across the mining industry value chain.

Tenova TAKRAF is a key supplier of equipment and systems for open pit mining and bulk handling, having provided hundreds of complete systems, as well as individual machines to clients all over the world. Comminution systems for milling and crushing requirements in mining and mineral processing are based on a track record dating back to the 1920s. Air pollution control, specialised handling equipment, and technology for the cement and fly ash industries and pneumatic conveying, ensure selection of optimal processing options. A comprehensive after sales service is provided. Bateman Engineered Technologies (previously part of the Bateman Engineering Group) is now trading as Tenova TAKRAF.

Tenova TAKRAF's in-house range for air pollution control is comprehensive, enabling the selection of the most cost-effective solution to any dust-control, air-cleaning or product-recovery problem, large or small. Systems are designed, manufactured and supplied as turnkey installation with full after-sales service.

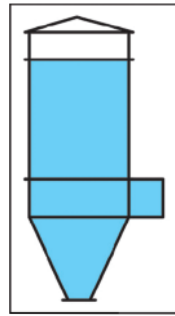


4T INLET DESIGN



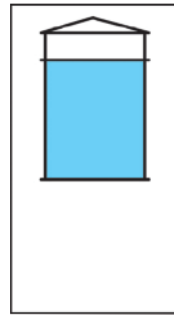
01

For dust mainly containing coarse particles



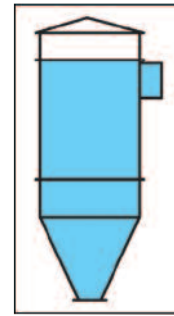
02

For large amounts of material



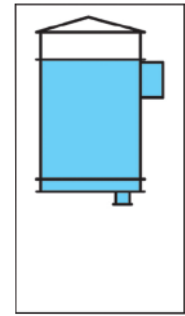
03

For direct mounting on silos or machines



04

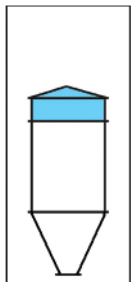
For small and medium amounts of dust containing fine particles



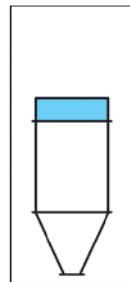
05

Same as 04, equipped with a scraper bottom to save height

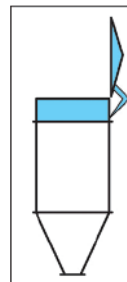
4T CLEAN-AIR CHAMBER



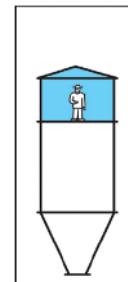
4T



4T1



4T2



4T3

FILTER AREA M ²	4T							
	15	20	25	30	35	40	45	50
JM 7/-	4.6	6.2	7.7	9.2	10.8	-	-	-
JM 10/-	6.6	8.8	11.0	13.2	15.4	-	-	-
JM 14/-	9.2	12.3	15.4	18.5	21.7	-	-	-
JM 21/-	13.9	18.5	23.1	27.7	32.3	-	-	-
JM 32/-	21.1	28.1	35.2	42.2	49.3	-	-	-
JM 41/-	27.0	36.1	45.1	54.1	63.1	72.1	81.1	90.2
JM 52/-	34.3	45.7	57.2	68.6	80.0	91.5	109.9	114.4
JM 70/-	46.2	61.6	77.0	92.4	107.8	123.2	138.5	153.9
JM 90/-	59.4	79.2	99.0	118.8	138.5	158.3	178.1	197.9
JM 124/-	81.8	109.1	136.4	163.7	191.0	218.2	245.5	272.8
JM 146/-	96.4	128.5	160.6	192.7	224.8	257.0	289.1	321.2
JM 170/-	112.2	149.6	187.0	224.4	261.8	299.2	336.6	374.0
JM 198/-	130.7	174.2	217.8	261.4	304.9	348.5	392.0	435.6

CHARACTERISTICS

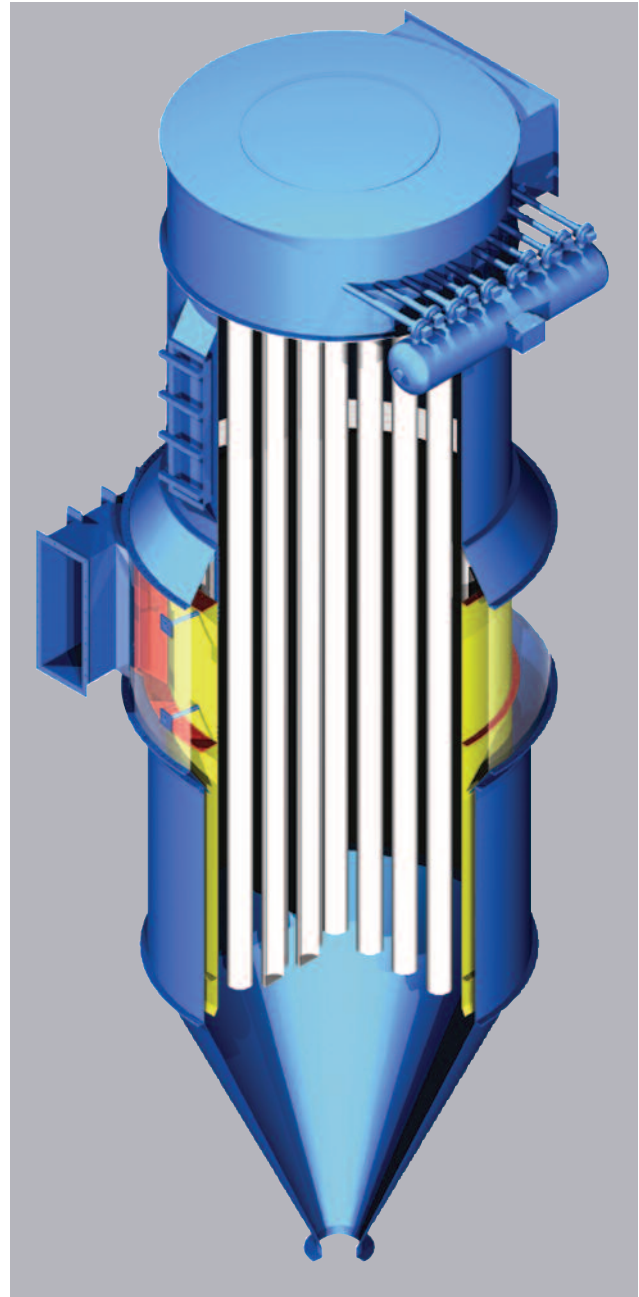
The SimPact 4T filter is characterised by a cylindrical design and an efficient pulse-jet system, automatically cleaning the filter bags in rows during operation.

The SimPact 4T pulse-jet filter is designed for continuous operation with a low pressure drop and has excellent features for separation of dry, as well as sticky dust particles.

- Efficient pulse-jet cleaning.
- Up to 50 % vacuum resistance.
- Maintenance-free execution.
- Side or top removal of filter bags.
- Available in sanitary design.
- Control system saving compressed air.
- Advanced control functions.
- Separation of almost any type of dust.

APPLICATIONS

- Building materials industry.
- Chemical industry.
- Plastics industry.
- Food processing industry.
- Feedstuffs industry.
- Wood and paper industry.
- Foundries.
- Incineration industry.
- Minerals industry.
- Textiles industry.
- Colour and enamel industry.



APPROVAL BY TÜV

Due to increasing demand for protection of pulse-jet filters against explosions, Simatek's filter programme has been tested and approved by TÜV Nord e.V., one of the world's leading institutions for approval of safety equipment.

Filters are both pressure and shock resistant according to German guidelines VDI 2263. Each filter unit can be supplied with an acceptance declaration, ensuring approval by local authorities.



Tenova TAKRAF

TAKRAF South Africa (Pty) Ltd
1 Kramer Road
Bedfordview
Johannesburg
PO Box 75996
Gardenview, 2047
South Africa
phone +27 11 201 2300
fax +27 11 455 4547
enquiries@bateman.com

TAKRAF GmbH
Torgauer Straße 336
04347 Leipzig
Germany
phone +49 341 2423 500
fax +49 341 2423 510
sales@takraf.com

Bahnhofstraße 26
01979 Lauchhammer
Germany
phone +49 3574 854 0
fax +49 3574 854 100
service@takraf.com

Tenova S.p.A
Via Albareto, 31
16153 Genoa
Italy
phone +39 010 6054067
fax +39 010 6054710
bulkhandling@it.tenovagroup.com

Tenova MINING & MINERALS

Bateman Projects (Pty) Ltd
Emerald Boulevard
Greenstone Hill 1609
PO Box 7737
Johannesburg 2000
South Africa
phone +27 11 899 9111
fax +27 11 899 2302
enquiries.TMM@za.tenovagroup.com

www.tenovagroup.com
www.bet.bateman.com

TECHINT GROUP

