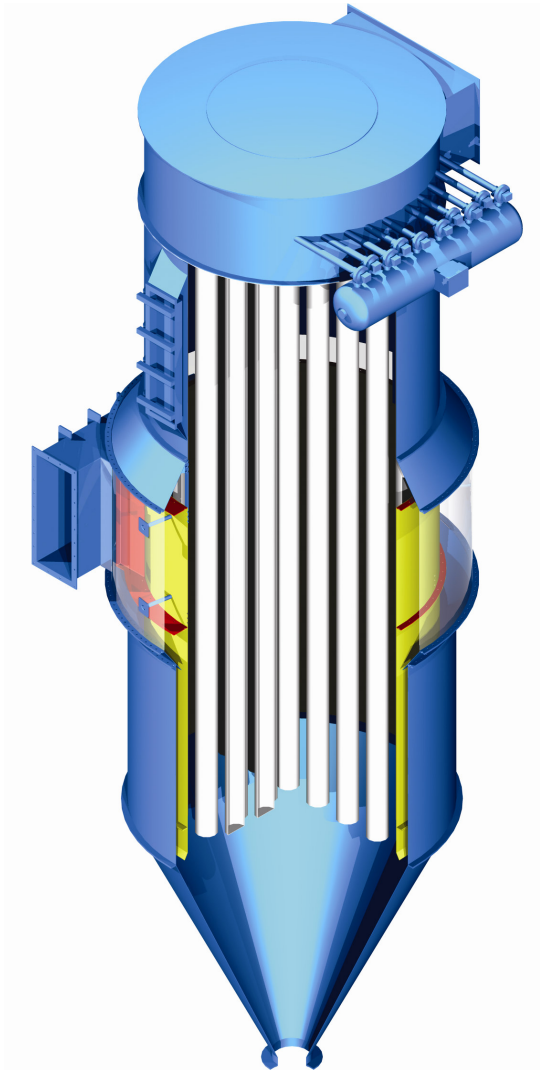


Filter Technology

SimPact 4T-R
High-Capacity Separator



SimPact 4T-R

Integrated Preseparator

The unique SimPact 4T-R filter with inlet design 12 - the Simatek TOTAL SEPARATOR - is manufactured in a circular design and equipped with automatic pulse-jet cleaning of the bags.

The filter is based on a 2-step principle; the first step is an integrated, dynamic preseparator and the second one is the very pulse-jet bag filter. The combination constitutes a unique filter concept for powder-loaded applications requiring high-capacity separation.

After the dynamic preseparation of the main product flow, a down-flow filtration of the remaining dust takes place, thus ensuring an efficient filtration of submicron particles.

As a standard feature the 4T-R filter holds a high pressure-shock resistance. For explosive dust the filter is available with an explosion venting device, or alternatively with a suppression system.

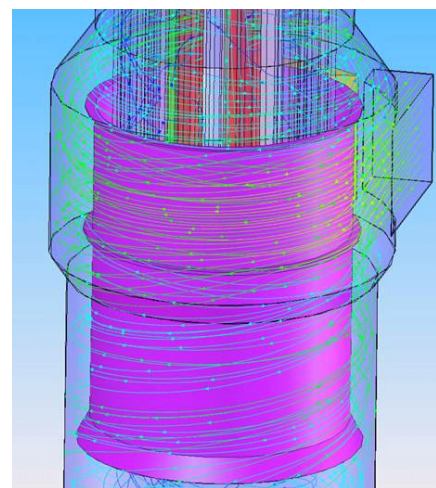
- Efficient pulse-jet cleaning
- Integrated dynamic preseparator
- Flexible modular system
- Pressure-shock resistance up to 2.5 bar
- Manufactured acc. to the ATEX Directive
- Suitable for explosive dust types
- Standard execution for zone 22 installation
- Suitable for high product loads
- Suitable for fine and abrasive dust
- Compact design
- Designed for continuous operation
- Optimum customization

2-Step Separator (Patent applied for)

The SimPact 4T-R with inlet design 12 is delivered with a tangential filter inlet with an integrated, dynamic preseparator.

The integrated air distributor and rotation damper ensure a stable flow behaviour around the filter bags, qualifying the filter for abrasive products.

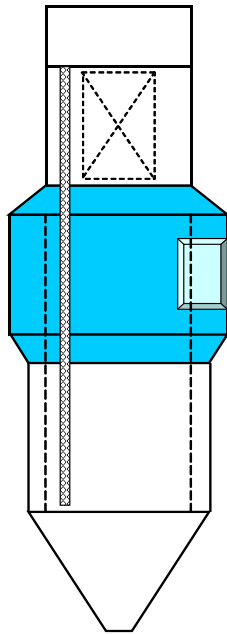
Major part is down-flow filtrated, thus maintaining a minimum pressure drop and a significant filter capacity.



Flow-simulation

Integrated dynamic preseparator and wear protection of filter bags

The Ideal Solution for High Product Loads



Inlet Module – Design 12

The inlet section forms part of the line of standard modules for the modular-built SimPact 4T-R filters.

The module is configured to all types of SimPact 4T-R filters without any adaptive measures.

The module includes a dynamic preseparator, rotation dampers, and an air distributor.

Depending on the application and the product load, the filter chamber below can as an option be equipped with an inner housing for wear protection of the filter bags.

Applications

Milling

- Grain
- Sugar
- Minerals
- Coal
- Coffee
- Rubber
- Chemical products

Spray- and Flash Drying

- Chemical products
- Minerals
- Fish meal

Sifters and Classifiers

- Agricultural products
- Minerals

Pneumatic Conveying

- Powder
- Granulate
- Grain and feedstuffs

*Construction form 14 with
pressure-shock resistant
scraper bottom*

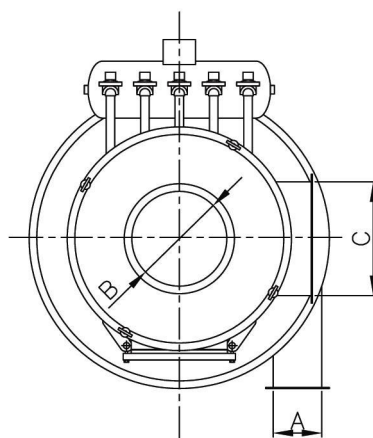
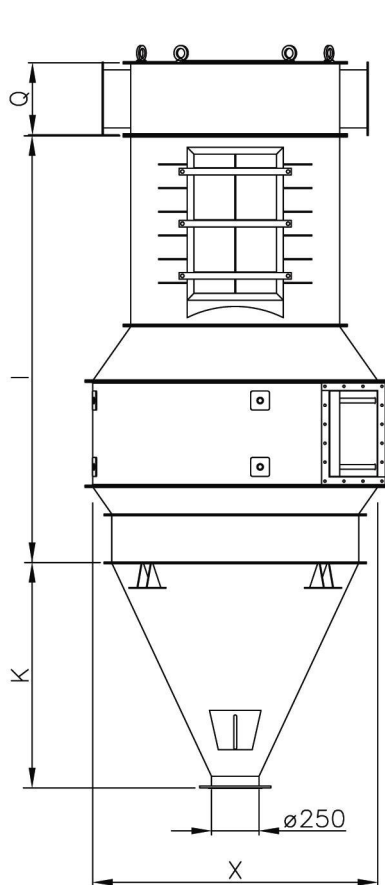


Norway

Milling of pea protein (50 percent <12 μ)

2 x SimPact JM 41/40-12, 4T-R3 (2 x 2.5 TPH)

2 x SimPact JM 90/40-12, 4T-R3 (2 x 5.5 TPH)



Pressure-shock resistant
scraper bottom, constr. form 14

Options

- Filter area up to 432 m² (SimPact 4T-R)
- Filter area up to 1478 m² (SimPulse 3C)
- Top removal, 4T-R-1, -2, and -3
- Explosion venting acc. to the ATEX Directive
- Stainless steel execution

Filter area m ²	4T-R, Constr. Form 12					Bag length, dm		
	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

Dimensions, mm	4T-R, Constr. Form 12						
	X	A	B	C	Q	I	K
JM 7/-	$\phi 900$	180x180	$\phi 300$	$\phi 250$	380	Bag length*100	438
JM 10/-	$\phi 1100$	175x300	$\phi 400$	$\phi 275$	380	Bag length*100	652
JM 14/-	$\phi 1300$	200x400	$\phi 400$	400x300	380	Bag length*100	824
JM 21/-	$\phi 1500$	250x450	$\phi 500$	550x300	380	Bag length*100	974
JM 32/-	$\phi 1800$	300x550	$\phi 600$	$\phi 600$	650	Bag length*100	1188
JM 41/-	$\phi 2000$	300x700	$\phi 600$	600x550	650	Bag length*100	1725
JM 52/-	$\phi 2200$	300x800	$\phi 960$	1050x550	650	Bag length*100	1938
JM 70/-	$\phi 2400$	400x900	$\phi 1100$	1400x550	650	Bag length*100	2163
JM 90/-	$\phi 2800$	500x1050	$\phi 1300$	1800x550	650	Bag length*100	2378