

## A cost-efficient, robust solution that gives you the benefit of high productivity and savings

The SimPact 4T-R filter has a compact, cylindrical design and an efficient pulse-jet cleaning system. The filter housing and inlet zone are strategically placed in the various construction forms. This ensures a smooth flow of both coarse and fine particles into the filter.

### Benefits

#### Efficiency

- The pulse-jet system automatically cleans the bags row-by-row even as the dust is being filtered. The advantage is that the filter continues to work for you while the bags are being cleaned.

#### Savings

- Being a low maintenance solution, the SimPact 4T-R needs minimum downtime. This means continuous plant operations for you.
- The filter control system helps maintain a low pressure drop – helping you save both compressed air and energy.

#### Flexibility

- You can separate almost any kind of dust – fine, abrasive or explosive.
- The flexibility in bag removal allows you to easily service the bags.



### Features

- Capacity: 500 – 130.000 m3/h
- Filter size: 3,1 – 435,6 m2 filter surface
- Standard 5% vacuum
- Pressure shock resistance: Up to 2,0 bar
- Works on both dry and sticky products
- Bag removal: via both clean and dirty air sides
- Complying with the ATEX directive
- Indoor installation with explosion vent following European standard EN14491 or the German guidelines VDI 3673

### Construction forms

- Inlets:**
- 03 + 3 WB
  - 04
  - 05
  - 12 (high capacity)
  - 14 (high capacity)
  - 17 + 17 WB (high capacity)

### Top:

- 4T-R
- 4T1-R
- 4T2-R
- 4T3-R

### Applications

- |                                                                                                                                                         |                                                                                                                                         |                                                                                                                                                       |                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>• Grain and feed industry</li><li>• Chemical industry</li><li>• Cement industry</li><li>• Food industry</li></ul> | <ul style="list-style-type: none"><li>• Brewery</li><li>• Paper industry</li><li>• Plastics industry</li><li>• Metal industry</li></ul> | <ul style="list-style-type: none"><li>• Fish feed industry</li><li>• Pet-food industry</li><li>• Recycling industry</li><li>• Wood industry</li></ul> | <ul style="list-style-type: none"><li>• Mineral industry</li><li>• Fertiliser industry</li></ul> |
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## Selecting filter size

SimPact® 4T-R

Filter area m<sup>2</sup>

Type JM	7	10	14	21	32	41	52	70	90	
Bag Length - dm	10	3,1	4,4	6,2	9,2	14,1	18,0	22,9	30,8	39,6
	15	4,6	6,6	9,2	13,9	21,1	27,0	34,3	46,2	59,4
	20	6,2	8,8	12,3	18,5	28,1	36,1	45,7	61,6	79,2
	25	-	11,0	15,4	23,1	35,2	45,1	57,2	77,0	99,0
	30	-	-	18,5	27,7	42,2	54,1	68,6	92,4	118,8
	35	-	-	21,6	32,3	49,3	63,1	80,0	107,8	138,5
	40	-	-	-	-	-	72,1	91,5	123,2	158,3
	45	-	-	-	-	-	81,1	102,9	138,5	178,1
50	-	-	-	-	-	90,2	114,4	153,9	197,9	

For larger filter sizes, please contact Simatek's sales department

## Selecting construction form

03 and 03 WB*	04	05	12	14	17 and 17 WB*
Dust load:					
<50 g/m <sup>3</sup>	<50 g/m <sup>3</sup>	<50 g/m <sup>3</sup>	<1000 g/m <sup>3</sup>	<100 g/m <sup>3</sup>	Unlimited

\*) Wide-Body

## Selecting the top cover for the clean-air chamber

4T-R	4T1-R	4T2-R	4T3-R
<ul style="list-style-type: none"> <li>• Pressure-shock resistant</li> <li>• Side Removal</li> <li>• Installation of bags through the mandoor</li> </ul>	<ul style="list-style-type: none"> <li>• Non-pressure shock resistant</li> <li>• Top Removal</li> <li>• Installation of bags from the clean-air side</li> </ul>	<ul style="list-style-type: none"> <li>• Pressure-shock resistant top with hinged cover</li> <li>• Top Removal</li> <li>• Installation of bags from the clean-air side</li> </ul>	<ul style="list-style-type: none"> <li>• Pressure-shock resistant "Walk in plenum" (Penthouse)</li> <li>• Top Removal</li> <li>• Installation of bags from the clean-air side</li> </ul>