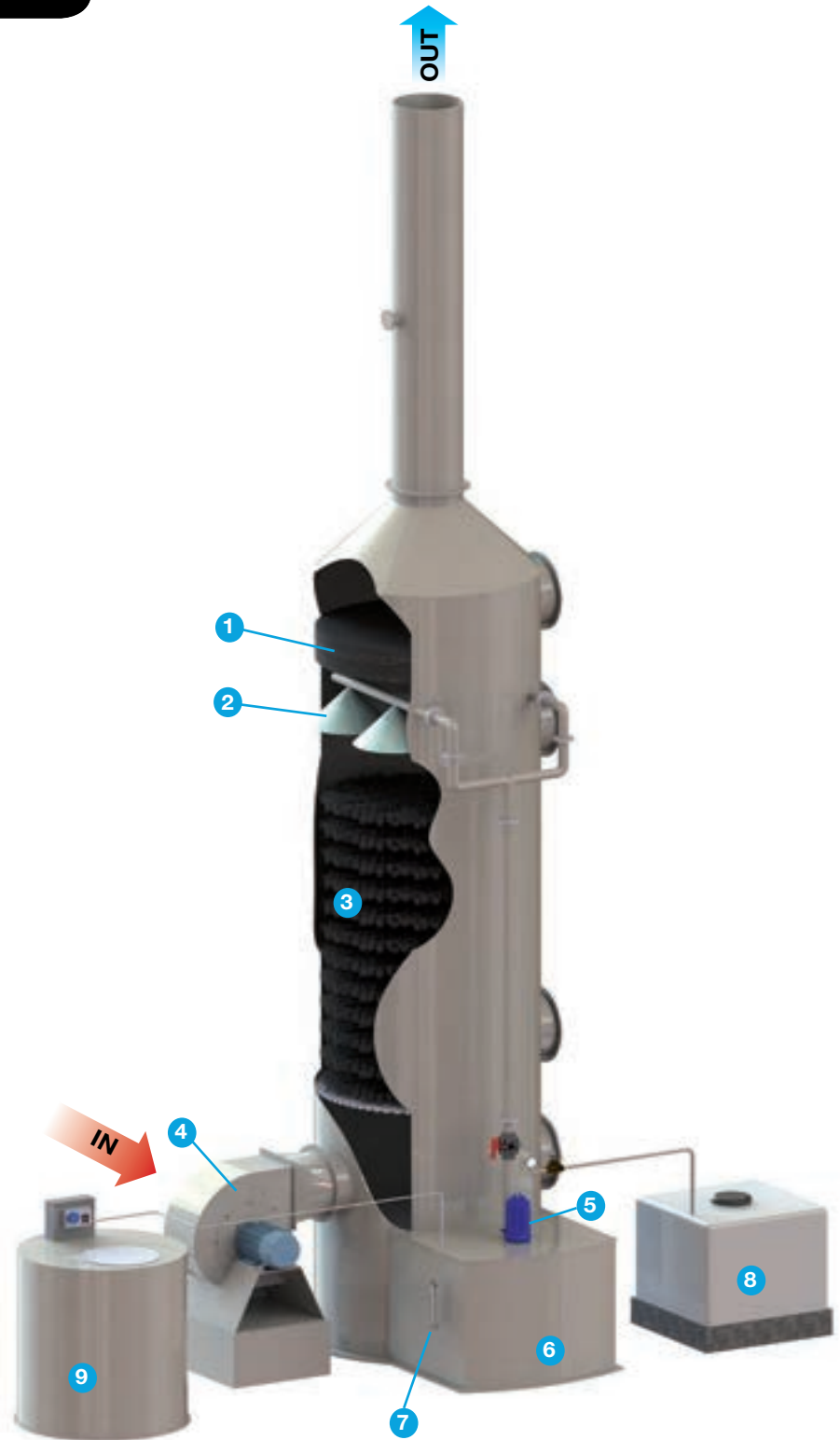


## SC Scrubber

Scrubber

## Scrubber

- 1 Demister
- 2 Nebulizer
- 3 Fillings element
- 4 Fan
- 5 Recerculation pump
- 6 Backwater tank
- 7 Level indicator
- 8 Wastewater tank
- 9 Reagent renewal system



The scrubber is a wet collection device which involves the use of a liquid (water or solution with appropriate reagent ) for the mechanical separation or chemical neutralization of contaminant particles from the gas stream.They can be made of polypropylene (PP) , PVC, polyethylene HD or stainless steel and they are widely used for the organic deodorization and for the removal of acid or alkali gases.

## II functionamet

The removal of pollutants mainly occur by a process of impingement of wetted particles on collecting surfaces, followed by their removal from the surfaces by a countercurrent flush with a liquid - water or reagent solution properly proportionated. The system recirculates the same washing liquid up to its saturation.

Once purified , the air pass through a demister stage, which have the function to eliminate any possible "carryover effects" and then is emitted into the atmosphere.

The gas stream is conveyed through the scrubber by a centrifugal fan properly dimensioned.

The plants are supplied with all the equipment that are necessary for their proper functioning. (recirculation pumps, spray nozzles, lines for the reinstatement of the fresh water, etc...)



## Different configurations

- **Scrubber venturi**
- **Double-stage scrubber, Triple-stage scrubber**
- **Horizontal scrubber**
- **Customised solutions**

## Benefits

- **Wide range of application, suitable for every type of pollutant**
- **Minimum energy consumption (low pressure drop)**
- **Stability (unwavering pressure drop)**
- **Continuous working (very short maintenance time)**
- **High efficiency, very low operating costs**
- **Low cost of installation, use and maintenance**

## The Range

### SINGLE-STAGE FLOATING SCRUBBER

flow rate up to min. 90.000 mch

contact time 1 sec

$\Delta P \leq 120 \text{ mm h}^2\text{o}$

Model	Flow Rate m <sup>3</sup> /h	$\varnothing$ mm	H mm	Working rate mm
SCF-1300	20.000	1300	6500	4,19
SCF-1500	25.000	1500	6500	3,95
SCF-1600	30.000	1600	6500	4,15
SCF-1700	35.000	1700	7500	4,30
SCF-1900	40.000	1900	7900	3,92
SCF-2000	50.000	2000	7900	4,42
SCF-2200	60.000	2200	7900	4,38
SCF-2400	70.000	2400	8000	4,30
SCF-2600	80.000	2600	8000	4,19
SCF-2870	90.000	2870	9200	3,87

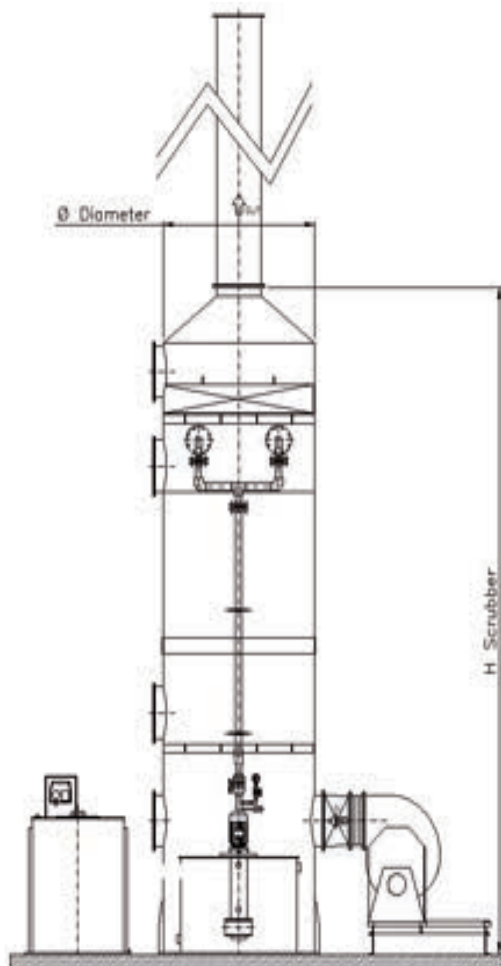
### SINGLE-STAGE STATIC SCRUBBER

flow rate up to min. 50.000 mch

contact time 1 sec

$\Delta P \leq 80 \text{ mm h}^2\text{o}$

Model	Flow Rate m <sup>3</sup> /h	$\varnothing$ mm	H mm	Working rate mm
SCS-400	500	400	3500	1,10
SCS-500	1.000	500	3500	1,41
SCS-700	2.000	700	4000	1,44
SCS-900	3.000	900	4000	1,31
SCS-1100	4.000	1100	4500	1,17
SCS-1200	5.000	1200	4500	1,23
SCS-1400	7.500	1400	4500	1,35
SCS-1600	10.000	1600	5500	1,38
SCS-1900	12.500	1900	5500	1,23
SCS-2000	15.000	2000	5500	1,33
SCS-2200	17.500	2200	5500	1,28
SCS-2300	20.000	2300	6000	1,34
SCS-2600	25.000	2600	6000	1,31
SCS-2800	30.000	2800	6500	1,35
SCS-2900	35.000	2900	6500	1,47
SCS-3300	40.000	3300	7000	1,30
SCS-3500	45.000	3500	7000	1,30
SCS-3600	50.000	3600	7000	1,36



## Optional

The plants can be equipped by measuring instruments (pH, redox potential, electrical conductivity, etc...); they can also be equipped with automatic systems for the reinstatement of reagents and discharging system of spent solutions.

## Application

- processing on flexible and or semiflexible plastic material
- chemical, electrochemical and electroplating surface treatment processing
- chemical and pharmaceutical synthesis processing with acid/base emissions or V.O.C
- baking of calcareous materials
- processing of smelting and combustion
- polyurethane or DMF coating processing
- textile finishing processing (heatsetting, singeing, bleaching, etc...)
- generic processing where are generated VOC and CIV





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