



AyraScrub™ LPV

Cross-flow physico-chemical treatment by vertical spray gas scrubber

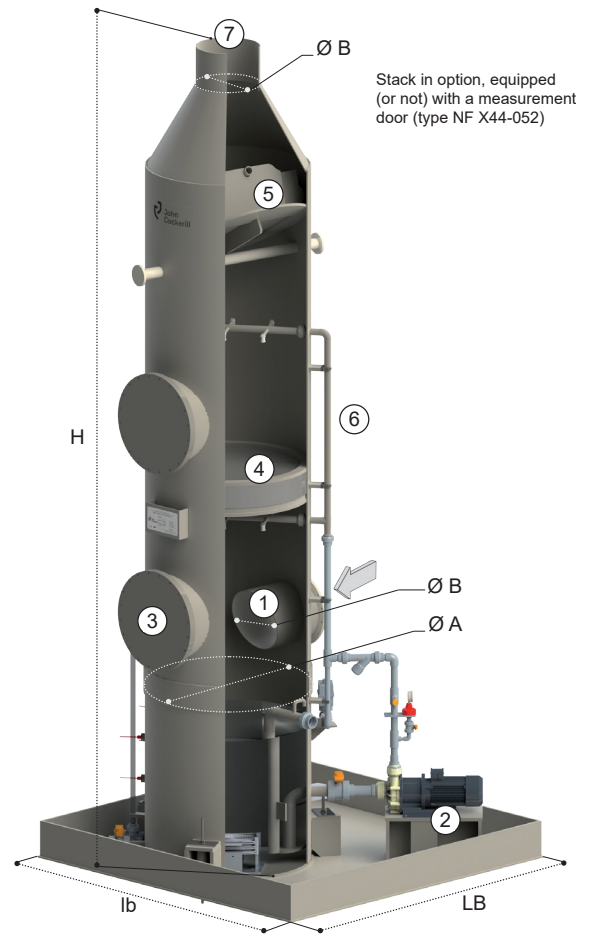
Operation

When pollutants become in contact with the aqueous scrubbing solution, the pollutants are transferred from the gas phase to the liquid phase where they are neutralized by the reagent injection.

Unlike packed bed scrubbers, the liquid/gas contact surface created in the column of the scrubber is made up of multiple liquid droplets sprayed into the gas stream. Spray nozzles, placed at the top of each cell of the **AyraScrub™ LPV** scrubber, produce a mist of droplets to create an exchange surface between the liquid and the pollutants. These droplets meet the gaseous pollutant, thereby creating the liquid/gas interface. Once the pollutants are dissolved, they are degraded and neutralized in the scrubbing liquid by chemical reagents. The liquid is then periodically deconcentrated and sent to the water treatment station.



1. Gas inlet
2. Recycling pump
3. Access hatch, transparent in option
4. Intermediate separator
5. Droplet separator
6. Spraying device equipped with spray heads
7. Vertical or horizontal gas outlet



Technical specifications

Numerous options are available, including frost protection, anchoring, retention, access ladders and platforms, extractable separator, automatic management, inclined bottom, special materials, etc.

SCRUBBER AyraScrub™ LPV (ie: Scrubber 2C)						PUMPS (3 000 rpm)	Total Weight	Recovery bund	
SIZE	FLOW (min. - max.)	Ø A	Ø B* (min. - max.)	H** (height)	LIQUID VOLUME	kW	kg	LB	lb
Unit	m³/h	mm	mm	mm	m³			mm	mm
470	400 - 1 000	470	125 - 200	3 620	0,14	2,2	450	1 200	1 400
710	1 000 - 2 800	710	200 - 315	3 820	0,32	2,2	700	1 400	1 600
940	2 600 - 4 700	940	315 - 400	4 315	0,56	2,2	1 050	1 500	1 900
1 250	4 700 - 10 000	1 250	400 - 560	4 760	0,99	3	1 650	1 900	2 150
1 400	7 000 - 12 500	1 400	500 - 630	4 925	1,24	3	2 050	2 000	2 300
1 600	9 500 - 17 000	1 600	560 - 710	5 245	1,61	3	2 550	2 200	2 550
1 900	14 000 - 25 000	1 900	710 - 800	5 635	2,27	4	3 650	2 600	2 900
2 200	19 000 - 34 000	2 200	800 - 1 000	6 190	3,05	5,5	4 900	2 900	3 300
2 500	24 500 - 44 000	2 500	900 - 1 120	6 700	3,93	7,5	6 400	3 100	3 800
2 850	33 000 - 57 500	2 850	1 000 - 1 250	7 215	5,11	7,5	8 150	3 300	4 200
3 150	40 000 - 70 000	3 150	1 120 - 1 400	7 670	6,24	9	9 800	4 000	4 600
3 500	50 000 - 86 500	3 500	1 250 - 1 500	8 215	7,70	9	11 950	4 200	4 900
4 000	66 000 - 113 000	4 000	1 400 - 1 700	9 005	10,06	11	15 950	4 400	5 400

* The Ø and direction of the gas outlet determine the height of the scrubber's conical roof.

** The number of spray heads determines the height of the straight body (H) of the scrubber.

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