



AyraScrub™ LRV

Cross-flow physico-chemical treatment by vertical 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, selected according to the compounds to be treated.

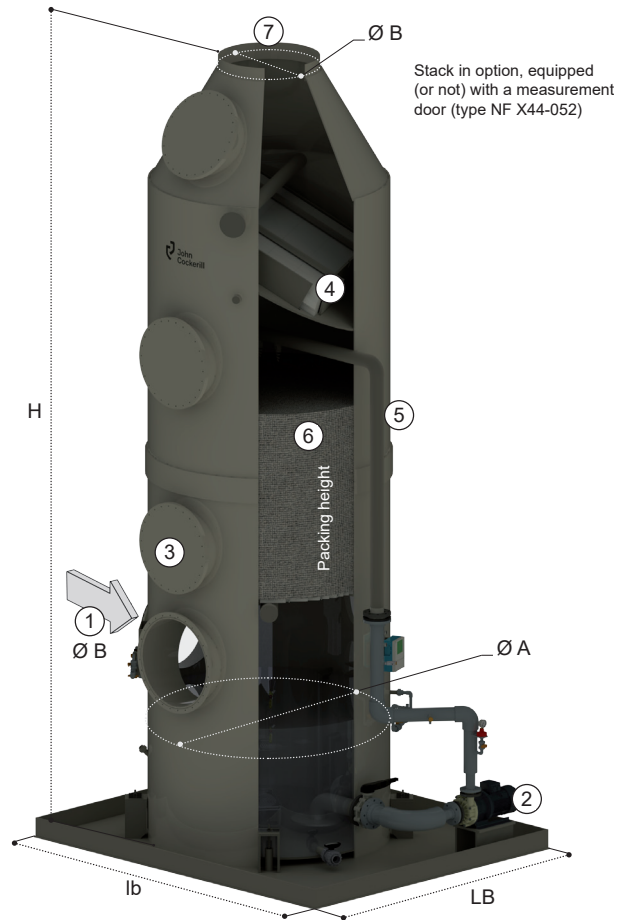
The spray nozzles or the hydraulic valves, placed at the top of the scrubber, distribute the scrubbing liquid over the packing. Liquid flows by gravity, forming a film with a large contact surface on the packing.

To avoid saturation of the scrubbing liquid, it shall be periodically deconcentrated.

The **AyraScrub™ LRV** scrubbers are equipped with a final separation stage to prevent the droplets from being carried away with the gas.



1. Gas inlet
2. Recycling pump
3. Access hatch, transparent in option
4. Droplet separator
5. Recycling pipe equipped with spray heads
6. Packing between 1 m. and 3.5 m., with an increment of 0.5 m.
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™ LRV (for 2 meters of packing)						PUMPS (3 000 rpm)	Total Weight (for 2 meters of packing)	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	4 815	0,14	1,1	620	1 100	1 400
710	1 000 - 2 800	710	200 - 315	5 050	0,32	1,1	890	1 300	1 600
940	2 800 - 4 700	940	315 - 400	5 565	0,56	2,2	1 355	1 600	1 800
1 250	4 700 - 10 000	1 250	400 - 560	6 065	0,99	3	2 130	2 000	2 250
1 400	7 000 - 12 500	1 400	500 - 630	6 170	1,24	4	2 530	2 200	2 400
1 600	9 500 - 17 000	1 600	560 - 710	6 495	1,61	4	3 300	2 400	2 650
1 900	14 000 - 25 000	1 900	710 - 800	6 940	2,27	7,5	4 610	2 800	3 000
2 200	19 000 - 34 000	2 200	800 - 1 000	7 620	3,05	7,5	6 090	3 100	3 300
2 500	24 500 - 44 000	2 500	900 - 1 120	8 140	3,93	7,5	7 670	3 200	3 800
2 850	33 000 - 57 500	2 850	1 000 - 1 250	8 655	5,11	11	10 070	3 600	4 200
3 150	40 000 - 70 000	3 150	1 120 - 1 400	9 110	6,24	11	12 320	4 000	4 600
3 500	50 000 - 86 500	3 500	1 250 - 1 500	9 650	7,70	15	14 570	4 500	5 200
4 000	66 000 - 113 000	4 000	1 400 - 1 700	10 445	10,06	18,5	18 880	4 900	5 700

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

** The height of the packing determines the height of the straight body (H) of the scrubber.

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