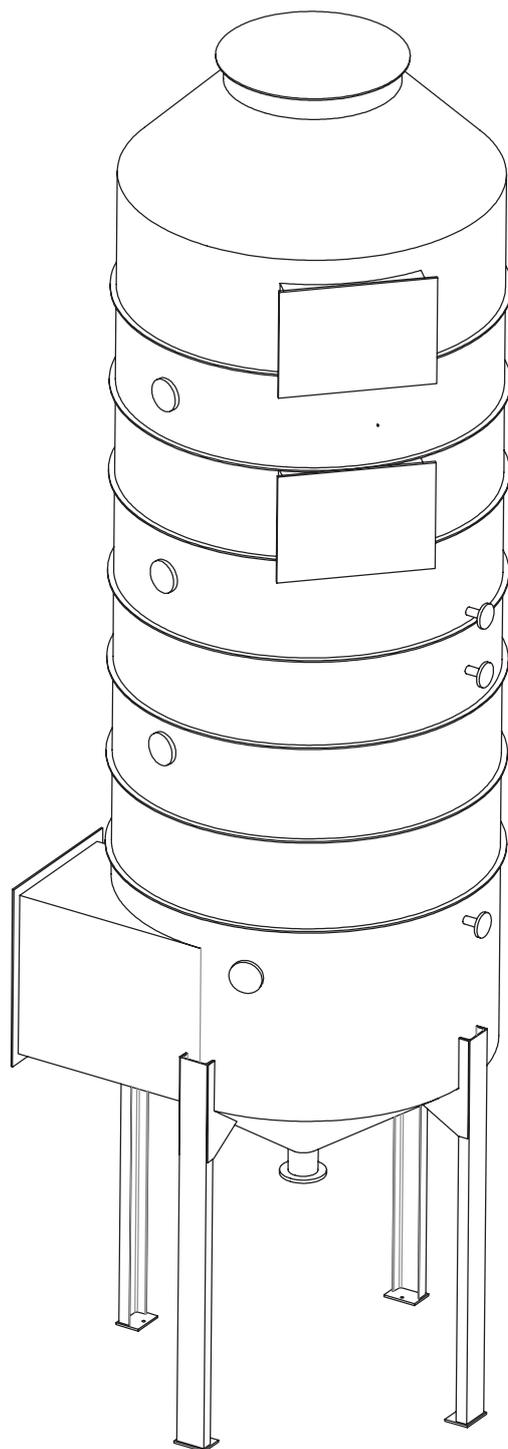


## SCRUBBER FOR SUGAR EXTRACTION



## Purpose

Wet type of dust collector-scrubber - used for extraction of polluted by sugar dust air after treatment in DE360 and/or DE500 dryer-coolers. Polluted air after leaving the dryer's drum is dragged by exhaust fans along the scrubber. This is wet type of centrifugal deduster and the effectiveness of sugar dust of particles larger than 5  $\mu\text{m}$  extraction is 99,5 %.

## Description of operation

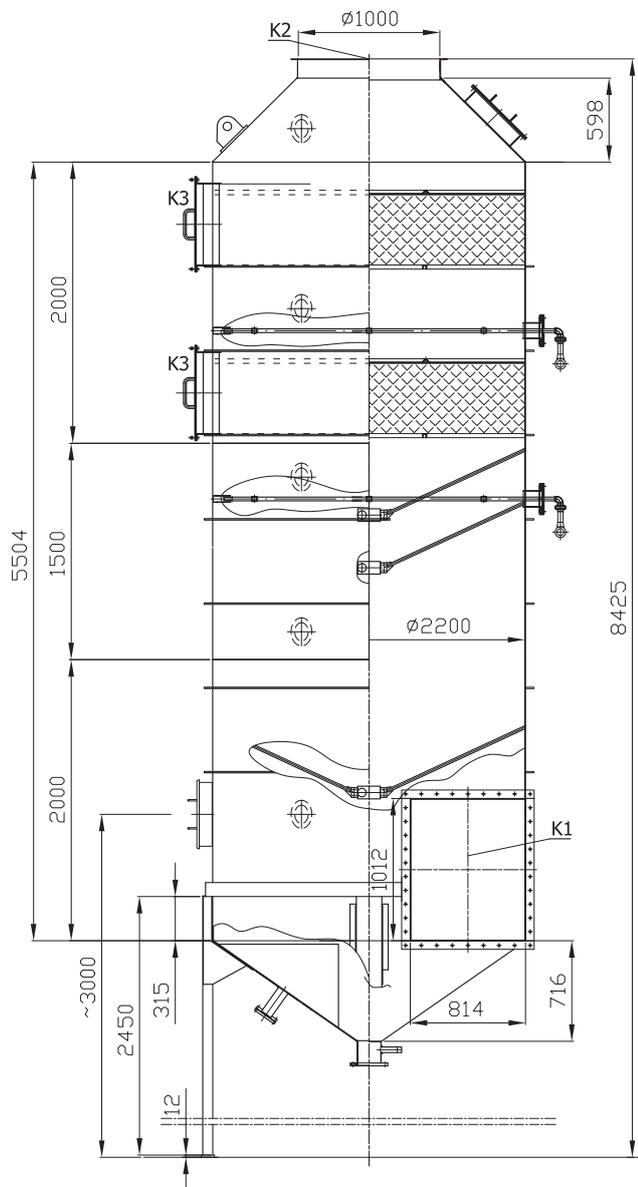
Dusty air is routed tangentially to the lateral surface of the scrubber to the lower inlet nozzle. Three centrifugal sprinklers placed inside the scrubber are splashing the wetting liquid on its wall, which then flows by gravity force into the conical portion of the scrubber. The air, after dedusting, flows through out two liquefying layers of MULTIWIR filling, where previously taken tiny droplets of liquid are detained. Filling are periodically washed up by provided washing system. Dedusted and demised air escapes from the scrubber by upper outlet nozzle and is discharged into the atmosphere. The scrubber is built in a form of vertical cylindrical tank with bottom inlet and upper outlet nozzles. In the central part of the scrubber there is sprinkler system installed and above two liquefying layers of filling together with washing nozzles are mounted. Pure water, condensate or thin juice may be used as spraying liquid. Scrubber can be sprayed with a single flow of liquid or liquid can be recirculated. Scrubber tank is made out of stainless steel and supporting structure of corrosion proofed carbon structural steel.

## Technical features

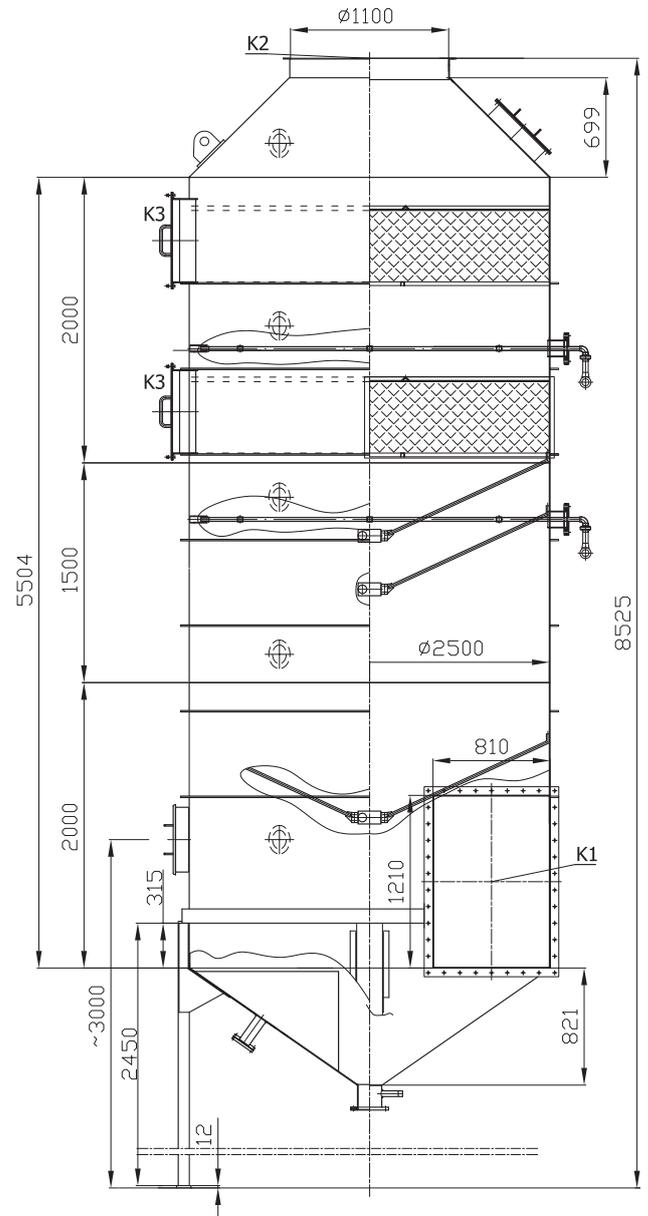
TYPE	SKR-2200	SKR-2500
Diameter	2200 mm	2520 mm
Total capacity	23,5 m <sup>3</sup>	30,5 m <sup>3</sup>
Nominal productivity	45 000 m <sup>3</sup> /h	60 000 m <sup>3</sup> /h
Intensity spraying	32 m <sup>3</sup> /h	40 m <sup>3</sup> /h
Sprinkling pressure	3,5 bar	4,0 bar
Working temperature	15 ÷ 60 °C	
Weight of empty apparatus	3 400 kg	3 900 kg

Scrubber - dimensions

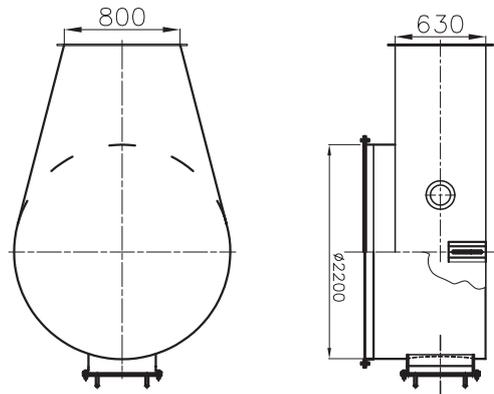
SKR-2200



SKR-2500



## Alternate - Side - air outlet from the scrubber



## Technological scheme of liquid Wet scrubber-spraying

