

## Application

The table for thermal cutting (gas and plasma) type SCT is meant for capturing of dusts, fumes and gases arising during cutting the steel sheets. Those substances are destructive to the environment and harmful to health. Application of the SCT table provides efficient removal of contamination, directly at the emission source – i.e. from the grate surface. SCT table, cooperating with a filtering unit of suitable volume flow, provides clean air at the workplace, protecting the environment and health of the working people.

## Structure

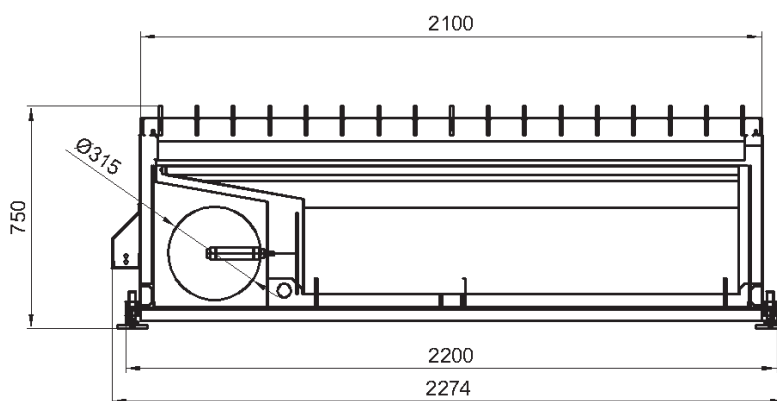
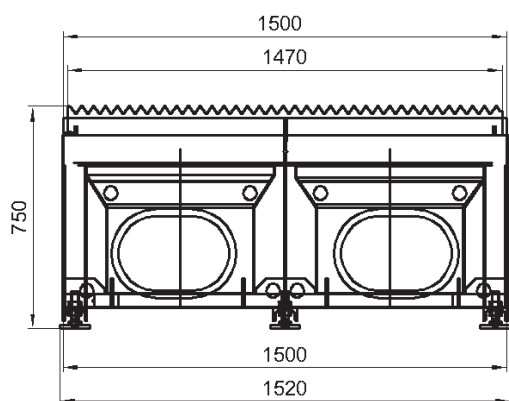
The table consists of subsequent assemblies:

- table body,
- replaceable grate,
- container for waste,
- shut-off damper assembly,
- pneumatic control elements of the shut-off damper.

Tables are constructed of single modules, while the single modules are divided into 2 sections. Depending on the size of the elements meant for cutting, the tables can be suited together in a way providing adequate total length. The material for cutting ought to be placed on the tables' grates which is constructed of specifically shaped steel sheet. Due to its shape, the grate will not get burnt. During the cutting process the spatters and impurities of the processed material fall into the subsequent waste containers that are easy to empty. Mounting eye grips, provided at the waste containers, are for lifting the elements and significantly simplify the cleaning process. Due to the container construction, it is easy to remove the accumulated slug. Additionally, the containers are protected with an extra grill, so the small processed elements would not fall onto the waste container bottom. As the shut-off damper system is opened pneumatically, (by means of the micro-switches), the extraction proceeds exclusively from one section, right where the cutting process takes place, resulting in significant extraction efficiency of the polluted air and also energy saving. In the course of the cutting, the spatters and impurities from the processed element are falling into the subsequent containers, that are convenient in waste removal.

Recommended extraction efficiencies with reference to grate surface are:

- for gas cutting – 2000 m<sup>3</sup>/h for 1 m<sup>2</sup> grate surface,
- for plasma cutting – 4000 m<sup>3</sup>/h for 1 m<sup>2</sup> grate surface.



## Technical data

Type	Part No.	Grate surface of one module [m <sup>2</sup> ]	Recommended volume of the extracted air within one module	
			For laser cutting [m <sup>3</sup> /h]	For plasma cutting [m <sup>3</sup> /h]
SCT	813S10	1,5	3000	6000

Caution: In configuration with UFO-4, its real volume flow is twice reduced in comparison with nominal flow. This should be taken into account while choosing the device size. For example in case of UFO-4-M/N-2 (nominal flow 10000 m<sup>3</sup>/h) – real flow during plasma cutting or gas cutting will be 5000 m<sup>3</sup>/h.