

## ERGO-STW – welding table with upward extraction

### Purpose

ERGO-STW welding stations are applied as fully ventilated welding posts. They serve for extraction the air polluted with dry dust formed generally during metal welding. The dust is captured very close to the emission source, in two directions: upwards through the self-supporting extraction arm or downwards through the suction chamber with a grate.

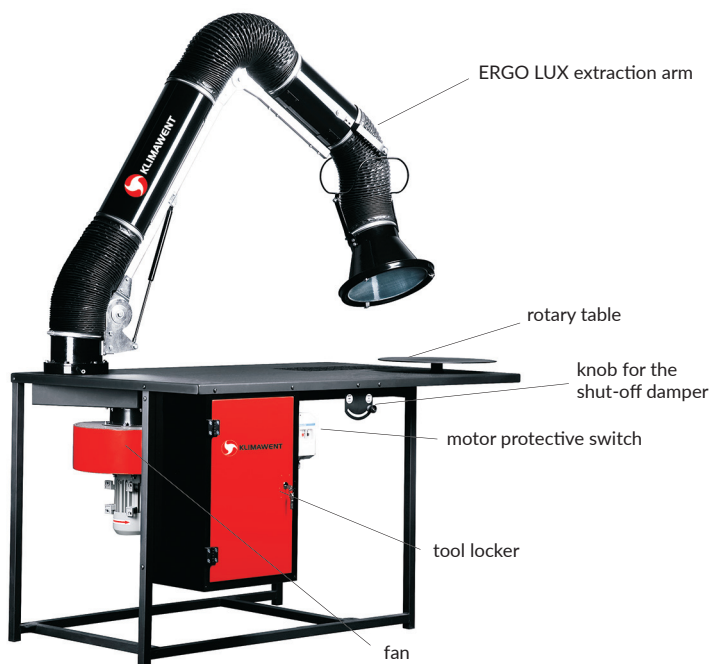
Both, ERGO-STW-R and ERGO-STW-R-MINI require connection to the discharge ventilation ductwork (removing the extracted volume outside the building), whereas ERGO-STW-F contains a built-in filtering unit and the cleaned air is recirculated to the process room to avoid further thermal loss in winter.

ERGO-STW-S-MINI is a solution for smaller welding workshops, and especially for welding schools. A compact size table does not require much place in a small school welding box. In this case, the extraction arm ought to be installed separately on a wall or under the ceiling.

### Structure

In all versions, the supporting structure is a workbench, with grate. Each table is equipped with a clamp for grounding cable of the welding machine. ERGO-STW-R, ERGO-STW-R-MINI, ERGO-STW-F welding tables, depending on the position of the shut-off damper are able to extract through a suction hood (upwards and sideways) or through the grate (downwards). Additionally, ERGO-STW-F and ERGO-STW-R are equipped with a rotary table for welding of small elements, and additionally an ERGO LUX extraction arm can be installed on the table.

Workstation table ERGO-STW-R



The complete welding station consists of:

- workbench with a tool locker,
- fan,
- motor switch,
- as option: ERGO LUX extraction arms.

Workstation table ERGO-STW-F



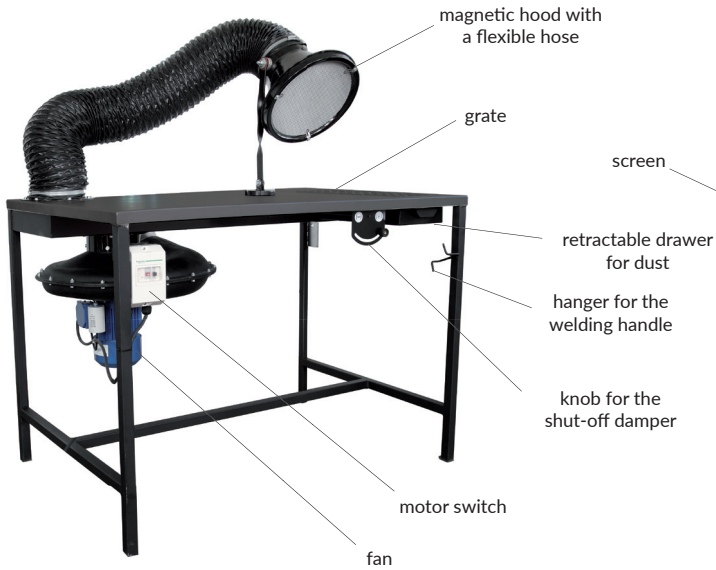
The complete welding station consists of:

- workbench with a tool locker,
- filtering unit,
- as option: ERGO LUX extraction arms.

The filtering unit is equipped with a fan, polyester cartridge filter of polyester fabric, class H13, pneumatic filter regeneration system and a control unit (supply and control). Contamination that has accumulated in the filter surface, is struck down by the cyclical impulses of compressed air. Pneumatic filter regeneration system consists of a compressed air tank, and an electromagnetic compression valve. Therefore the device has to be connected to the external compression installation.

# ERGO-STW

Workstation table ERGO-STW-R-MINI



Workstation table ERGO-STW-S-MINI



The complete welding station consists of:

- workbench with grate,
- fan,
- electrical unit,
- magnetic hood with a flexible hose.

The complete welding station consists of:

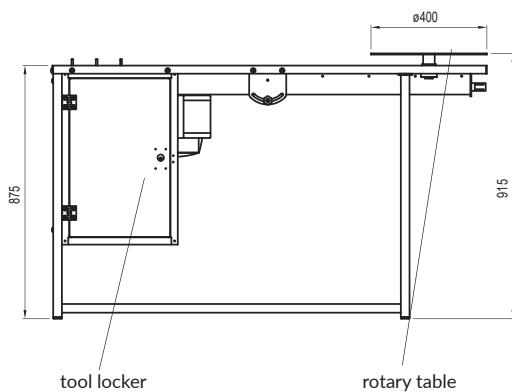
- workbench with grate,
- support for the welding handle,
- screen,
- as option: ERGO LUX extraction arms to be installed on a wall or under the ceiling.

## Technical data

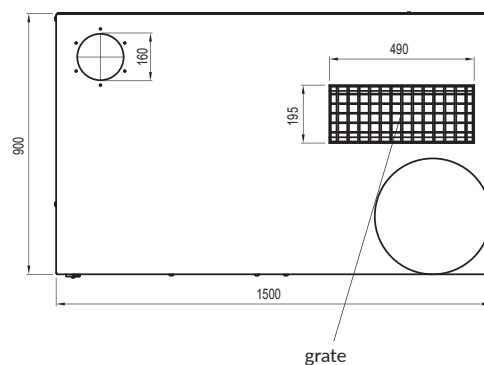
Type	Part no.	Volume flow [m <sup>3</sup> /h]	Supply voltage [V]	Motor rate [kW]	Weight [kg]	Acoustic pressure level [dB(A)]	Required pressure of compressed air [MPa]	Connection diameter of the fan outlet [mm]
ERGO-STW-R	813S05	1500	3x400	0,55	164	67	—	160
ERGO-STW-F	813S03	1500	230	1,1	250	68	0,6	—
ERGO-STW-R-MINI	813S08	1500	230	0,75	66	78	—	160
ERGO-STW-S-MINI	813S09	—	—	—	15	—	—	—

## ERGO-STW-R

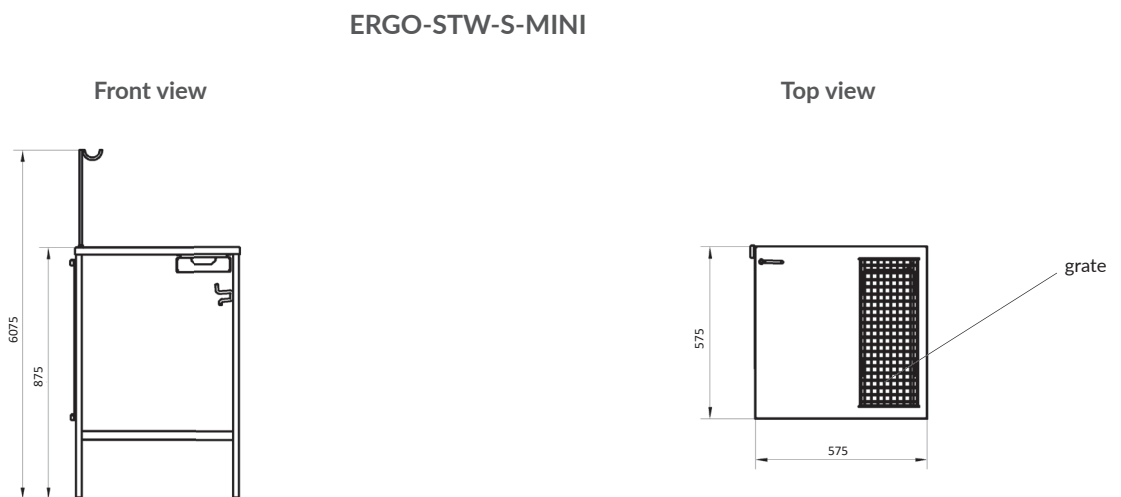
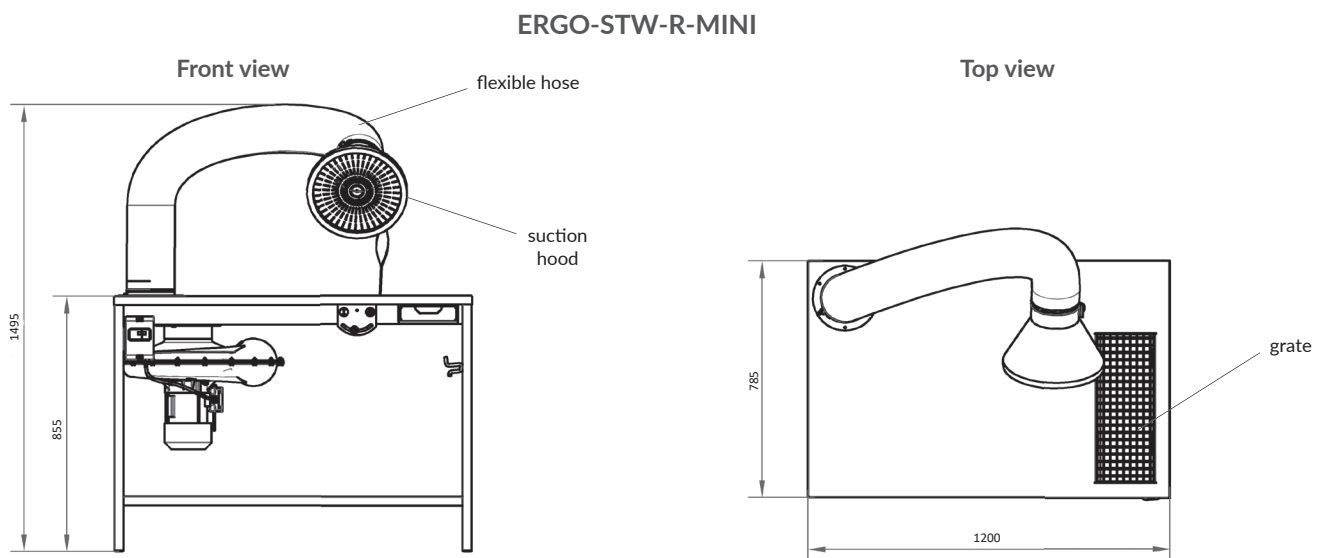
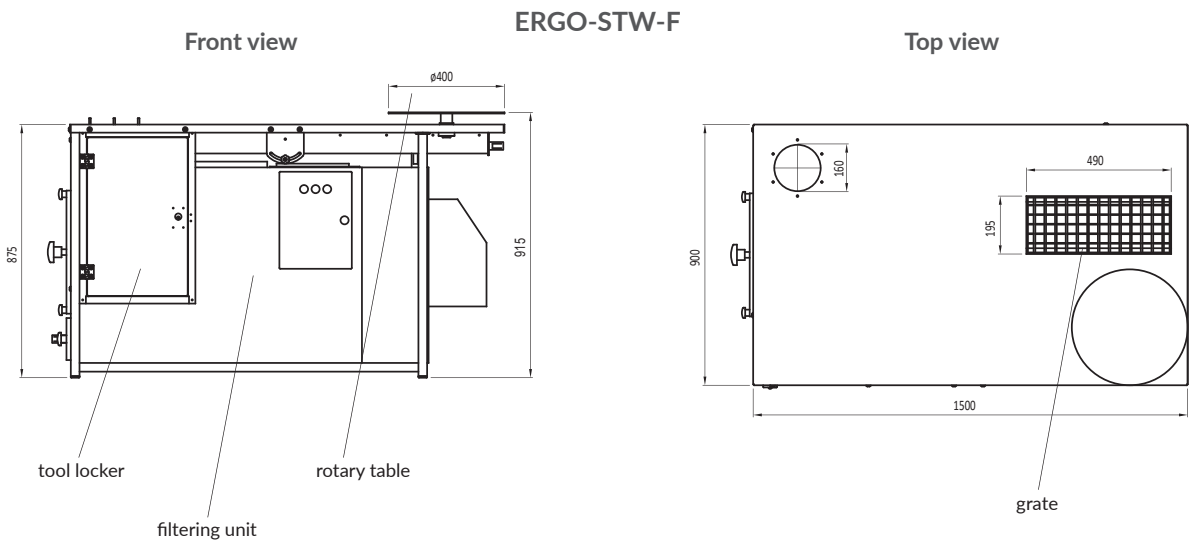
Front view



Top view




# ERGO-STW



## Replaceable parts

### Cartridge filter

	Type	Part no.	Weight [kg]	Filtration efficiency [%]	Remarks
	PN126638U	800F02	6,2	99,9	Purpose: for the filtering unit in ERGO-STW-F welding station. Replacement frequency 1-2 years.