

## Application

The ERGO-STW welding stations are applied as fully ventilated welding posts. They serve for extraction the air polluted with dry dusts formed generally during metal welding. The dust is captured very close from 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 with 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.

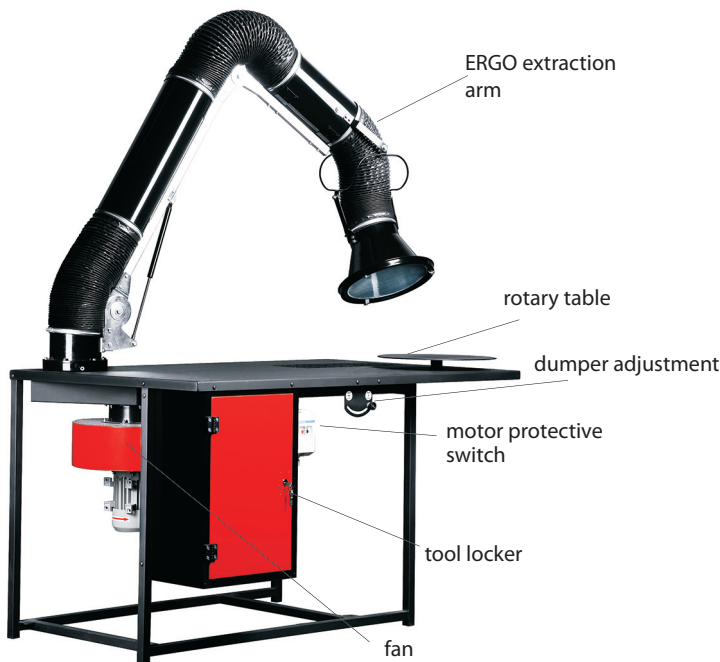
ERGO-STW-S-MINI is a solution for smaller welding workshops, and especially for welding schools. A compact size table does not require much place in a small school welding box. In this case, the extraction arm ought to be installed on a wall or under the ceiling.

## Structure

In all versions, the supporting structure is a workbench, with grate. Each table is equipped with a clamp for grounding cable. 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 the small elements, and additionally an ERGO extraction arm can be installed on the table.

welding station ERGO-STW-R



The complete welding station consists of:

- workbench with a tool locker,
- fan,
- motor switch,
- (option) ERGO extraction arm.

welding station ERGO-STW-F



The complete welding station consists of:

- workbench with a tool locker,
- filtering unit,
- (option) ERGO extraction arm,

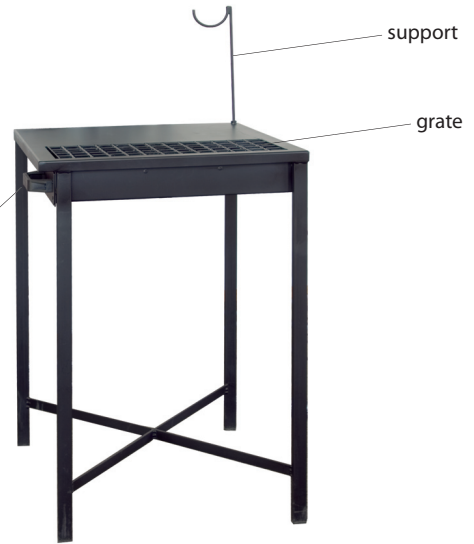
The filtering unit is equipped with a fan, polyester cartridge filter with a teflon membrane – type PTM, class H13, pneumatic filter regeneration system and a control unit. Contamination that has accumulated in the filter surface, is struck down by the cyclical pulses of compressed air.

### Workstation table EFGO-STW-R-MINI



- The complete welding station consists of:
- workbench with grate,
  - fan,
  - electrical unit,
  - magnetic hood with a flexible hose.

### Workstation table EFGO-STW-F-MINI



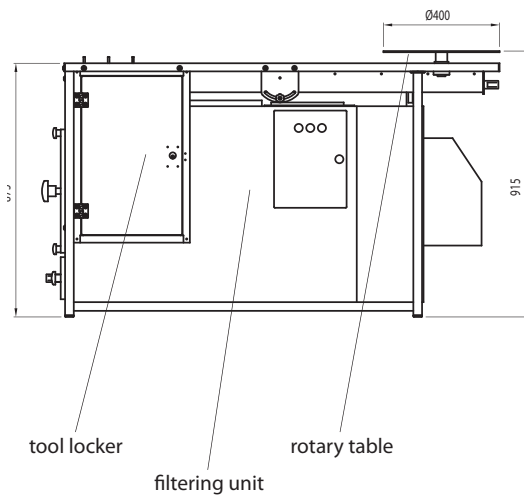
- The complete welding station consists of:
- workbench with grate,
  - support for the welding handle,
  - as option: ERGO extraction arm to be installed on a wall or under the ceiling

## Technical data

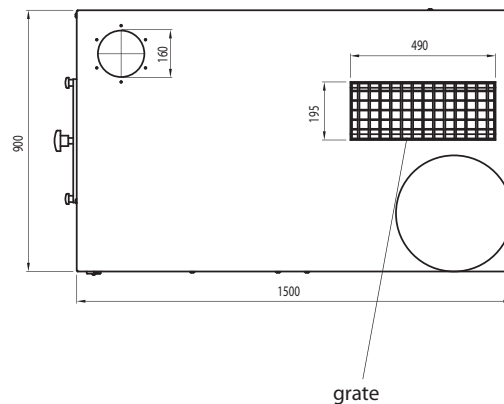
Type	Part No.	Volume flow [m <sup>3</sup> /h]	Supply voltage [V]	Motor rate [kW]	Weight [kg]	Acoustic pressure level [dB(A)]	Required pressure of compressed air [MPa]	Connection diameter of the fan outlet [mm]
ERGO-STW-R	813S05	1000	3 × 400	0,55	164	72	—	160
ERGO-STW-F	813S03	1000	230	1,1	250	68	0,6	—
ERGO-STW-R-MINI	813S08	1500	230	0,75	71,5	78	—	160
ERGO-STW-S-MINI	813S09	—	—	—	20	—	—	—

### ERGO-STW-F

front view

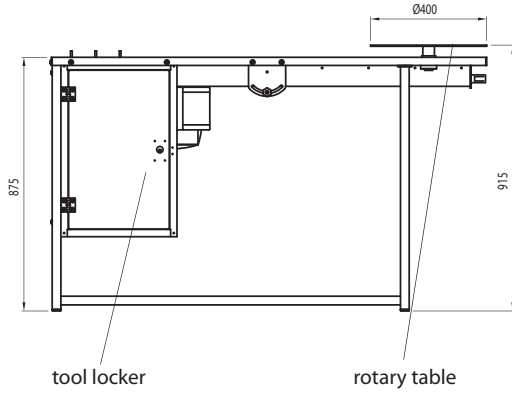


top view

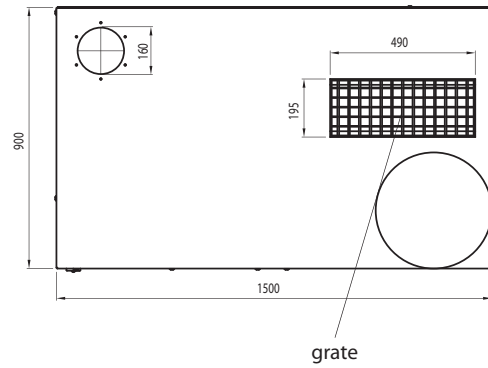




front view

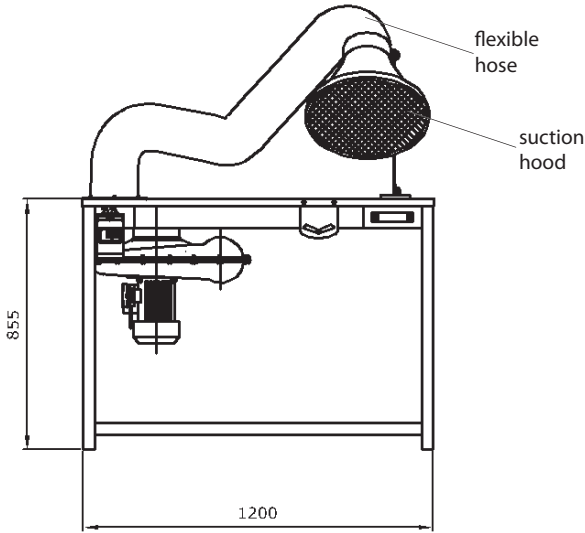


top view

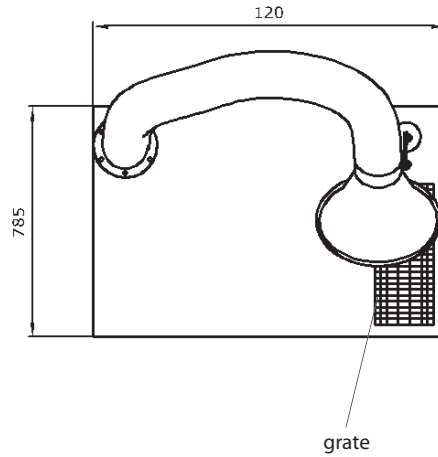


ERGO-STW-R-MINI

front view

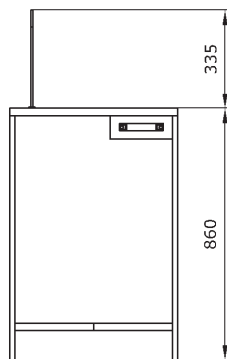


top view

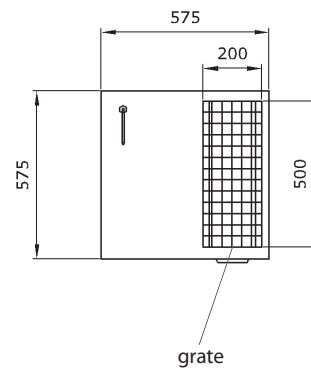


ERGO-STW-S-MINI

front view



top view



### Replaceable parts

#### Cartridge filter



Type	Part.No	Weight [kg]	Class	Filtration efficiency [%]
PTM-126638U	452F31	6,2	H13	99,95
PTG-086638U	452F30	5,1	H14	99,995
PTN-166638U	452F19	7,1	H12	99,5
PTA-166638U	452F20	7,1	H12	99,5

Remarks

Purpose: for the filtering unit in ERGO-STW-F welding station. Replacement frequency 1 – 2 years.

Caution: As standard, the devices are equipped with filters PTM-126638U class H13.