

schuster

CT EXT



MOBILE OUTDOOR BOILER ROOM

Schuster outdoor boiler room with casing, an excellent solution that can always be placed in the most suitable place, next to the plant, building or on the roof.

The proposed solution is designed and built according to the customer's actual needs.

Possible set-up with a wide range of industrial boilers and accessories by Schuster.

The thermal power plant is complete with all the components necessary for operation, ready for use and inserted in a pre-assembled structure, with class A1 insulating sandwich panels according to EN 13501-1, complete with pedestrian doors and double-leaf doors, to facilitate access and maintenance..

All thermal power plants built by Schuster are in compliance with the fire fighters directives, with liquid and gaseous fuels.

DESCRIPTION

Standard container:

Modified type 20" HC" first trip "container, not certified for maritime transport, suitable for outdoor use.

Construction

- Designed for road transport
- Lifting: from above through upper corner blocks
- Overlap: not allowed
- No. 8 ISO 1161 corner blocks at the ends
- Side and front walls made of Corten steel panels
- Roof made of cold pressed Corten steel panels
- On one short side REI 120 900x2150 mm door, obtained by modifying one of the steel doors of a shipping container, the other door remaining openable through 2 galvanized locking rods, and with EPDM gasket seal.
- On one long side double-leaf door REI 120 1800x2150 mm, external handle with lock, internal panic bar
- N. 2 ventilation windows, one positioned immediately above the gas entry point, the second on the short side opposite to the one of the door.
Net section and position of the grids in compliance with Italian regulation DM 08/11/2019, section 2.
- Floor in smooth carbon steel sheet, 4 mm thick, supported by "C" shaped sleepers and painted with anti-corrosion primer.

Finish

- Internal / external sandblasting of the metal structure according to SA 2.5 grade
- Internal painting with anti-corrosion primer, light gray RAL 7035 or RAL 7032, minimum thickness 70 microns
- External painting RAL 7035 minimum final thickness 120 microns

Available on request:

- Oversized version obtained from 40" Container
- "Brand new" version (no "first trip")
- Opening in the roof, according to customer-specific size, consisting of a tubular frame and water tight cover sheet.

- Wall insulation 50mm thick, with class A1 material according to EN 13501-1, covered with micro-perforated galvanized sheet.
- Opening grid on short wall
- Additional doors according to customer requirements
- Installation of a portable fire extinguisher with a nominal charge not exceeding 6 kg or 6 l and extinguishing capacity at least 34A 144B, positioned at the exit of the container.
- Safety signs in accordance with current legislation to draw attention to the prohibitions and limitations imposed and to indicate the position of the external general gas shut-off valve and the general electrical switch.
- External painting in white RAL 9010

Documentation relating to the control unit and the service and / or auxiliary systems:

- Assembly drawing
- P&ID
- Use and maintenance manuals
- Wiring diagrams
- Declarations of Conformity to Italian legislation:
 - DM37 / 08 for electrical panels
 - DM37 / 08 for electrical system
 - DM37 / 08 for chimney
 - DM37 / 08 for hydraulic system

Container documentation (on request with extra charge):

- Calculation report drawn up by a qualified engineer for the verification of the structure with respect to the stresses during handling, to the installed equipment and for the definition of the lifting procedure.
- Calculation report for the verification of seismic stresses and wind action
- ATEX classification analysis report
- PED Assembly certification

Exclusions:

- Fire Prevention Certificate

MAIN WORKS THAT CAN BE PERFORMED

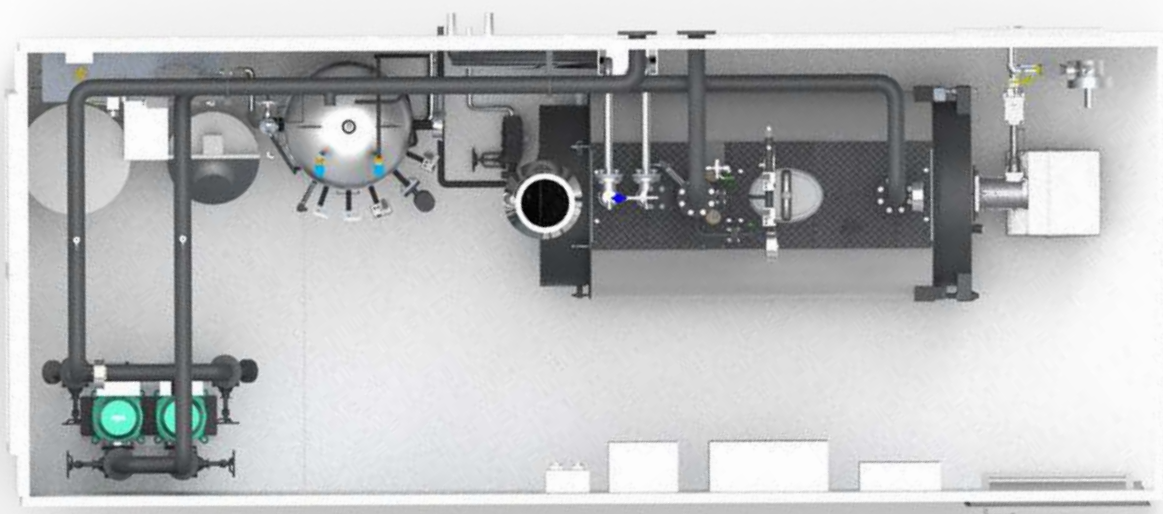
Operations may vary according to the type of purchased materials):

- Positioning and fixing the boiler(s) on the container floor
- Positioning and fixing the burner, if supplied
- Positioning, fixing and connection of the water treatment system, if provided
- Positioning, fixing and connection of the condensate collection tank / degasser, if present (steam systems)
- Steam sampling pipe with flange positioned flush with the container wall (steam systems)
- Reinstatement water supply pipe to the generator (or to the condensate collection tank) with flange for connection to the system positioned flush with the container wall (steam systems)
- Condensate recovery pipe (brought to the condensate collection tank) with flange for connection to the system (steam system)
- Flow and return pipes of overheated water / hot water / diathermic oil with flanges positioned flush with the container wall (overheated water / hot water / diathermic oil systems)
- Generator and safety valves discharge pipes conveyed outside the container
- Natural gas supply piping, made of carbon steel, with anti-vibration joint, external shut-off valve and arrival at the burner gas train.
- Shut-off valves where necessary
- Electrical panel for voltage and power, IP 54, complete with:
 - main switch with door lock key
 - contactors and fuses for the protection of the installed equipment
 - colored running and block signal lamps
 - n° 1 service socket
- Electrical wiring for connection of the equipment supplied
- Internal lighting system complete with ceiling lamp
- Double-walled insulated chimney, 1 m high beyond the ridge of the container (or higher on request), with a diameter suitable for the power of the generator
- Electric and hydraulic assembly of all the material supplied
- Executive planning
- Other works on request

SYSTEM CONFIGURATIONS (EXAMPLES)

SYSTEM 1

BOILER ROOM
for superheated water



SYSTEM CONFIGURATIONS (EXAMPLES)

SYSTEM 2

BOILER ROOM
for steam

