

Unical

StEM



configuration made up of 2 coupled modules



INSTANTANEOUS ELECTRIC STEAM GENERATOR (MODULAR)

OUTPUT RANGE

from 30 kW (40 kg/h) to 240 kW (320 kg/h)

DESIGN PRESSURE

9.0 bar

WORKING PRESSURE

up to 8.0 bar

TEMPERATURE

up to 175°C

MODELS

40

80

160

240

320

DESCRIPTION

Instant electric steam generator, 99% efficiency⁽¹⁾.

The StEM series is a family of instant electric steam generators, fully automatic. It is designed for operating pressure up to 8.0 bar. The range includes various models with steam production from 40 to 320 kg/h (30-240 kW). Pursuant to legislation in force, the StEM family of steam generators is CE marked PED 2014/68/EU..

General features:

The generator consists of one or more modules that come assembled to increase steam production. Each module consists of a tank (and relative accessories) with more installed resistances that allow to modulate the production of steam and the absorbed power.

The installation is particularly simple and fast, being only 4 connections needed: power supply, steam outlet, discharge and water inlet, which can be withdrawn directly from the water mains.

The electrical management panel is unique and intuitive, the interface is based on Ufly P panel.

Thanks to the modular composition, the StEM generators allow to optimize the space occupied.

Composition of the standard supply: ⁽²⁾

- no. 1 steam outlet valve / each module
- no. 1 safety valve / each module
- no. 1 reflection level indicator with interception valves / each module
- no. 1 pressure gauge / each module

- no. 1 safety pressure switch / each module
- no. 1 safety thermostat / each module
- no. 1 automatic water level adjustment group
- no. 1 centrifugal electric pump for water loading
- Water charge line with piping and valve interception
- no. 1 water drain/sludge purge unit with manual valve / each module
- Control panel for automatic operation
- Power supply 400V - 3Ph + neutral - 50Hz / each module
- Documentation supplied as standard⁽³⁾:
 - EC declaration of conformity of:
 - equipment (body) under pressure
 - safety valve(s) of the equipment(s).
 - manufacturer's assembly
 - Warranty
 - Installation, use and maintenance manual
 - Wiring diagram
- Accessories:
 - Condensate collection tank (200 litre capacity)
 - Multiple power supply kit: for single power supply in presence of several modules and any power supplies in absence of neutral
 - Manifold for just one steam outlet

(1) This value may change according working pressure and load conditions.

(2) The quantity and the model may vary according to the configuration.

(3) The above documentation will be provided in electronic format, except for the use and maintenance manual which will be supplied in paper format together with the equipment.

TECHNICAL DATA

Model	Steam production	Power input	Max. working pressure	safety pressure	Water content
	kg/h	kW	bar	bar	l
40	40	30	8.0	9.0	50
80	80	60	8.0	9.0	50
160	160	120	8.0	9.0	2 x 50
240	240	180	8.0	9.0	3 x 50
320	320	240	8.0	9.0	4 x 50

STEAM MODULES DIMENSIONS

Model	Length	Height	Depth	Feed water	Blow down	Steam connection	Empty weight	Total weight
	mm	mm	mm				kg	kg
40	700	720	1090	1/2"	1/2"	1/2"	150	200
80	700	720	1090	1/2"	1/2"	1/2"	150	200
160	700	1400	1090	1/2"	1/2"	1/2"	280	380
240	700	2090	1090	1/2"	1/2"	1/2"	430	580
320	1400	1400	1090	1/2"	1/2"	1/2"	540	740

CONFIGURATION SCHEME

