

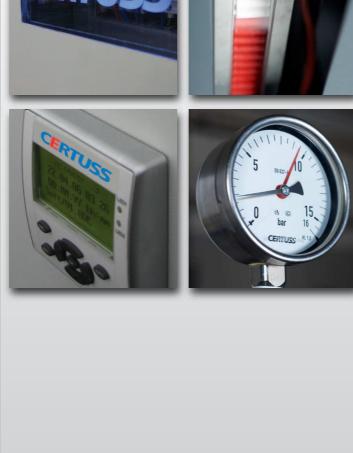


Electrical E 100 – 120 M

Also in product range

		corioc			
Size	Steam generators JUNIOR TC	Method of combusti			
1	e Steam capacity kg/h 80 – 120	Oil or gas			
2	150 - 200	Oil or gas			
3	250 - 400	Oil or gas			
2	Steam generators UNIVERSAL 1	C series			
Size	e Steam capacity kg/h	Method of combusti			
4	500 - 600	Oil, gas or combinatio			
5	700 – 850	Oil, gas or combinatio			
6	1000 – 1300	Oil, gas or combinatio			
7	1500 – 2000	Oil, gas or combinatio			
	Steam generators ELEKTRO E 6 – 72 M series				
Size	e Steam capacity kg/h	Method of heating			
One s	ize 8 – 97	Electrical 6 – 72 kW			
		R STEAM SYSTEM oped and ready to operate			
	boiler ho	CVE omplete ready-to-operate ousing installation g equipment, measuring equipr			
6.8 ¹	CERTECON for J	T GAS HEAT EXCHANGERS Junior 80 – 400 as well as SPI for Universal 500 – 2000			
	Heat recycling condensate Reduction of the amount of	DN HEAT EXCHANGER g from the desalination e to heat feed water cooling water at steam system hen waste water cooling is requ			









Electrical E 100 – 120 M at a glance

Operator convenience

- + Easy-to-service compact device, easy to operate
- + Optionally with supply unit for water conditioning and waste water cooling

Efficiency

- + Only few minutes start-up time
- + Fully electronic pressure and output control, immediate load adjustment
- + Electrical heating rods of stainless steel
- + Constant network load without consumption peaks

Operation and installation

- + Low space requirement, robust heavy-duty model like all CERTUSS steam generators
- + Can be installed in work areas
- + No permit required for installation and use in Germany
- + Fully automatic operation by means of integrated clock timer or remote pulse (with supplementary equipment)
- + Automatic blow down*
- + Automatic desalination

Safety and quality

- + Function and malfunction indications can be linked to PLC/central control system provided by customer
- + Series fabrication within the total CERTUSS program
- + Customer service standby 24 hours a day, 365 days a year
- + Spare parts supply guaranteed for 20 years
- + On request, all boiler parts made of stainless steel for pure steam production





E 100 – 120 M: a genuine CERTUSS

The electrical steam generator E 100 – 120 M is a genuine CERTUSS - meaning rapid heat-up time, low space requirement, easy to service, low loss, immediate output adjustment. In accordance with the European Pressure Equipment Directive 2014/68/EU the E100 is classified as Category III with a product of the water contents (I) x maximum permissible steam pressure (bar) < 1000. It has been tested in accordance with the EC type examination. The steam generator E 100 – 120 M has less-restricted conditions for installation and operation in the EC member states. In Germany it does not require supervision and approval by TÜV.

E 100 – 120 M: small, complete and safe

The E 100 – 120 M is a complete, ready-to-operate, electronically controlled steam generator with built-in feed water tank and feed water pump as well as dual implementation of safety devices for pressure and temperature.

Only the disposal and supply lines are to be installed by the customer.

Control is carried out by means of a multifunction display, with all the functions and malfunctions being shown in plain text.

The desired operating steam pressure can be adjusted continuously between 4 bars and the maximum steam pressure (6, 10 or 12 bar).

All the operating and fault indications can be passed on to a central control system provided by the customer

E 100 – 120 M with "Thermotimat": fully automatic operation

With "Thermotimat" as supplementary equipment, fully

Technical Data E 100 – 120 M Measurements, weights and further values are rounded up or off. Indicated pressure are overpressure val Output values stated are related to 10°C feed water temperature and 0.6 MPa (6 bar) steam overpressu Delivery complete incl. stainless steel feed water tank. Rights reserved for technical alterations.		d up or off. Indicated pressure are overpressure values. emperature and 0.6 MPa (6 bar) steam overpressure. r tank. Rights reserved for technical alterations.	
Steam output	kg/h	135	160
Heat output	kW	100	120
Electrical connection	kW	105	125
Operating voltage	V/50 Hz	3 x 400, different voltage on request	
Admissible pressure	MPa (bar)	optional equipment 0.6 / 1.0 / 1.2 (6 / 10 / 12 bar)	
Working press. max.	MPa (bar)	0.5 / 0.8 / 1.0 (5 / 8 / 10 bar)	
Water capacity	I.	38.8	
Measurements A x B x C	mm	1925 x 1005 x 800	
Empty weight approx.	kg	415	
Connections	DN	water vapors 1" / feed water 1/2" / steam 1/2" / SV-blow-off line 1" / condensate 3/4"	
Regulations	Germany	Boiler group III (PSxV<1000) does not require permit for installation, approval and TÜV monitoring	

* Supplementary equipment.

The steam generator E 100 – 120 M can additionally be equipped with an automatic desliming device that automatically deslimes the pressure system after each manual shutdown or in automatic operation.

Automatic desalination

Electronically controlled electrical heating Heating is carried out by means of a compact heating element with a large heating surface whose heating output is adjusted continuously by means of a pressure sensor, distributed amongst three electronic power contactors. A standard installed, manually operable power selector switch can be used to limit the heating output to 1/3 or 2/3 of the load.

CERTUSS steam generators with oil, gas or combination heating are available for all requirements in seven sizes in the Junior and Universal series from 80 to 2000 kg/h steam output (see table on the back). Can also be used as battery systems for economic and operationally reliable steam supply.



Electrical E 100 – 120 M in detail

automatic start and shutdown operation by means of an integrated weekly clock timer or customer-provided external pulse from machines, PLC, remote controllers, etc. is possible.

Automatic desliming device

A device for fully automatic desalination, that is time-dependent, is included as standard.

CERTUSS oil/gas steam generators in 7 sizes

We reserve the right to make technical modifications.