



Application

Steam regenerators are used to produce saturated steam for a secondary system from steam or pressurized hot water.

Pure steam, without any contaminants that might be detrimental to health such as hydrazine, is produced.

Steam regenerators are therefore especially suited for sterilizing equipment in hospitals, steaming and drying chambers in the food-stuff industry, and for the production of distillates.

Technical Data (standard)

Service pressure	primary [bar]	32
Service temperature	primary [°C]	250
Service pressure	secondary [bar]	13
Service temperature	secondary [°C]	200
Capacity range	[kW]	5000
Feedwater quality ¹⁾	[µS/cm]	<= 5
Boiler water quality ¹⁾	[µS/cm]	<= 100

Steam regenerators for higher pressure/temperature ratings and larger capacities on request.

Standard Installation

Steam regenerators with self-acting heating-steam control

Installation of compact design with manual intermittent/continuous blowdown control, basic equipment, electric feedwater supply control with solenoid valve.
 Technical specifications: Feedwater quality ¹⁾ <= 5 µS/cm. Max. heating steam pressure: 6 bar, max. pure steam pressure: 4 bar.

Type	Pure steam flowrate [kg/h]	∅ [mm]	Overall length [mm]	Max. design pressure/temperature primary [bar/°C]	Max. design pressure/temperature secondary [bar/°C]
GRDEm-S 1	75	406	2600	13/200	6/200
GRDEm-S 2	250	508	3500	13/200	6/200
GRDEm-S 3	450	609	3600	13/200	6/200
GRDEm-S 4	700	711	3800	13/200	6/200

Steam regenerators with electric heating-steam control

Installation of compact design with automatic intermittent/continuous blowdown control, basic equipment, electric feedwater supply control with solenoid valve.
 Technical specifications: Feedwater quality ¹⁾ <= 5 µS/cm. Max. heating steam pressure: 6 bar, max. pure steam pressure: 4 bar.

Type	Pure steam flowrate [kg/h]	∅ [mm]	Overall length [mm]	Max. design pressure/temperature primary [bar/°C]	Max. design pressure/temperature secondary [bar/°C]
GRDEe-S 1	75	406	2600	13/200	6/200
GRDEe-S 2	250	508	3500	13/200	6/200
GRDEe-S 3	450	609	3600	13/200	6/200
GRDEe-S 4	700	711	3800	13/200	6/200

¹⁾ Recommended conductivity value at 20 °C. EN 285