

BERTSCHenergy

Power Plants
Process Equipment

95
YEARS

TRADITION
QUALITY
KNOW-HOW
SINCE 1925

Process gas cooler E-102 and steam superheater E-117

Reference Sheet



BERTSCH

TRADITION, QUALITY, KNOW-HOW. SINCE 1925.

» Process gas cooler E-102 and steam superheater E-117 - Full REVAMP «

Poland | Commissioning date: Q4/2020

Frequent repair action necessity in an ammonia plant is surely something the owners want to get rid of. Especially old high pressure vessels in the process cooling sections bear a high risk for production performance and even security of operators.

For this project BERTSCH served the client with a re-design (e.g. reasonable material upgrade), delivery and site works for a high pressure process gas cooler and steam superheater. Because of the very limited space and time on site it was a very challenging project and we can offer same competences to clients facing similar problems.

TECHNICAL DATA

» Process gas flow max.	235,000 m ³ n/h
» Max. gas inlet temperature	1,050 °C
» Max. gas inlet pressure	39 barg
» Max. heat duty	85 MW
» Max steam pressure	93 barg
» Max. steam flow (at 490 °C)	126 t/h

VESSEL WEIGHTS

» E-102 / E-117 empty	~ u.c. / u.c. t
» E-102 / E-117 in operation	~ u.c. / u.c. t

SCOPE OF SUPPLY

- » Full REVAMP of horizontal process gas cooler system in ammonia production plant
- » Dismantling of the old and erection of the new equipment. System is based on Haldor Topsoe Licence.

