

BERTSCHenergy

Power plants
Process equipment

90
YEARS

TRADITION
QUALITY
KNOW-HOW
SINCE 1925

Kelheim Modification

Reference Sheet



BERTSCH

TRADITION, QUALITY, KNOW-HOW. SINCE 1925

»Modification of boiler K 7«

Due to the planned increase of output from 120 t/h to 140 t/h the fin tube preheater was adapted, to counteract against a pre-evaporation in the fin tube preheater.

To stabilize the mass flow, orifices were installed in the inlet of each tube. The design of the orifices was carried out through a thermographic figure of the boiler and a pressure loss calculation via the economizer, taking the static conditions into account.

By means of these orifices, a calculated pressure loss will be achieved, which ensures a regular feed water distribution. As a result, a low evaporation tendency is present in the case of misalignment of the heating.

TECHNICAL DATA

» Process:	A gas-fired boiler, formerly heavy oil
» Boiler type:	Steinmüller industry boiler type V
» Parameter:	120 t/h, 71bar

