

CONDENSATE POLISHING

IMPURITY REMOVAL OF
PROCESS AND FEED WATER

The DS21 Condensate Polishing Package reduces the risk of damage to main systems caused by the concentration of soluble impurities.

DS21's Condensate Polishing Packages improve boiler efficiency and lifespan by purifying suspended solids, dissolved oil, total organic carbon (TOC), total dissolved solids (TDS) and etc. contained in steam cycle condensate in power plants and industrial facilities.

TECHNOLOGIES OVERVIEW



PRE-FILTER (ACTIVATED CARBON FILTER)

In a condensate polishing package (CPP), activated carbon filters play a critical role in removing organic contaminants (dissolved oil, total organic carbon (TOC)) and other impurities (suspended solids, etc.) from condensate. The porous structure of activated carbon provides a large surface area for effective adsorption of these substances.



MIXED BED POLISHER

A mixed bed ion exchanger (mixed bed polisher, mixed bed deionizer) is a vessel filled with a mixture of cation exchange resin and anion exchange resin for removal of trace dissolved solids from water. During service, water flows through this resin mixture. Cations dissolved in the water are then exchanged for hydrogen ions (H^+), while anions dissolved in the water are exchanged for hydroxide ions (OH^-). Hydrogen ions and hydroxide ions react to water.