

ABSTRACT

There is provided a technique that includes a plurality of first coolers installed in or around a process furnace configured to process a substrate, and configured to perform cooling by a cooling fluid; a second cooler installed in or around the process furnace and configured to perform cooling by the cooling fluid, the second cooler being not included in the plurality of first coolers; a distributor configured to distribute the cooling fluid supplied from a cooling fluid supply port to the plurality of first coolers and an auxiliary system bypassing the plurality of first coolers; and a merging part configured to merge the cooling fluid passed through the plurality of first coolers and the cooling fluid passed through the auxiliary system, respectively, and supply the merged cooling fluid to the second cooler.

FIG. 4