ABSTRACT OF THE DISCLOSURE

CONSTANT TEMPERATURE CONTROLLER

Cool fluid of a predetermined temperature is supplied to a three-way valve 20 of a sub unit 2 from a cooling side tank 43 of a main unit 1 of the controller, through a supply pipe 14. Hot fluid of a predetermined temperature is supplied to the three-way valve 20 from a heating side tank 44 through another supply pipe 15. The cool and hot fluids are mixed in a predetermined ratio by the three-way valve 20 according to a temperature of the external heat load 7, and supplied to a heat exchange chamber of the external heat load 7, to maintain the temperature thereof at a target temperature. The temperature of the external heat load 7 is measured by one of a sensor 72 in a processing chamber, a sensor 23 in a constant temperature fluid supply pipe, and a sensor 24 in a constant temperature fluid return pipe, for feedback control of aperture of the three-way valve 20.

FIGURE 11