

ABSTRACT

A heat-medium supply apparatus (1) includes a precooling heat-medium supply pipe (41) branching off from a heating-side return pipe (25) and extending to a precooling heat exchanger (40), and a precooling heat-medium return pipe (42) extending from the precooling heat exchanger (40) and coupled to the heating-side return pipe (25). A branching point (B1) of the precooling heat-medium supply pipe (41) from the heating-side return pipe (25) is located upstream of a heating device (7), so that a heat medium before being heated by the heating device (7) is supplied to the precooling heat exchanger (40). A connection point (C1) between the precooling heat-medium return pipe (42) and the heating-side return pipe (25) is located upstream of the heating device (7), so that the heat medium that has passed through the precooling heat exchanger (40) is supplied to the heating device (7) through the heating-side return pipe (25).

FIG. 1