

A humidity control system (10) is constituted by a single outdoor unit (13) and two humidity control units (11, 12). The two humidity control units (11, 12) are connected to the outdoor unit (13). With switching of the position of an outdoor four-way selector valve (22) in the outdoor unit (13), the flow direction of refrigerant in humidity control circuits (30, 40) in the humidity control units (11, 12) is inverted. Out of a first adsorption heat exchanger (31, 41) and a second adsorption heat exchanger (32, 42) in each humidity control circuit (30, 40), one serving as an evaporator dehumidifies a first air and the other serving as a condenser humidifies a second air. Each humidity control unit (11, 12) performs a dehumidification operation by supplying the dehumidified first air to a room and performs a humidification operation by supplying the humidified second air to the room. Each humidity control unit (11) is capable of selecting either the dehumidification operation or the humidification operation regardless of during which operation the other humidity control unit (12) is.