ABSTRACT

Aspects concern a heat exchanger system comprising a first heat exchanger comprising at least one condenser unit; a second heat exchanger comprising at least one evaporator unit; a coolant source; a coolant dispenser arranged to receive coolant from the coolant source and dispense coolant to the first heat exchanger; a coolant tray arranged to collect coolant from the first heat exchanger and direct coolant to the coolant source; and a heat conductor extending from the second heat exchanger to the coolant tray. The heat exchanger system may be applied to a portable air-conditioner unit. In some aspects, the coolant dispenser and heat conductor may be retrofitted to existing heat exchanger system.

FIG. 1