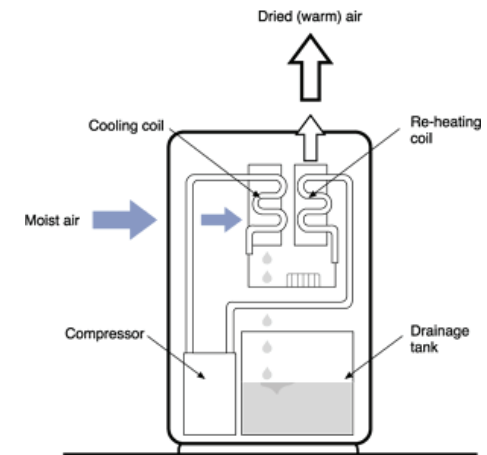




HOW HEAT PUMPS WORK

Current dehumidifiers, by virtue of their design are constantly consuming large amounts of energy. They work using the radiant R-410A, a near-azeotropic mixture of difluoromethane and pentafluoroethane. Unlike many haloalkane refrigerants this radiant does not contribute to ozone depletion however, it has a high global warming potential (1725 times the effect of CO₂), similar to that of R-22.



A dehumidifier removes moisture from room-temperature air by passing it over an evaporator coil. The moisture condenses out of the room air onto the cold surface of the coil and drains into a tray that must be periodically emptied. The drier room air is then discharged over a condenser coil and out the front of the dehumidifier, which warms it by several degrees further reducing its relative humidity.

DRAWN CONCLUSIONS

