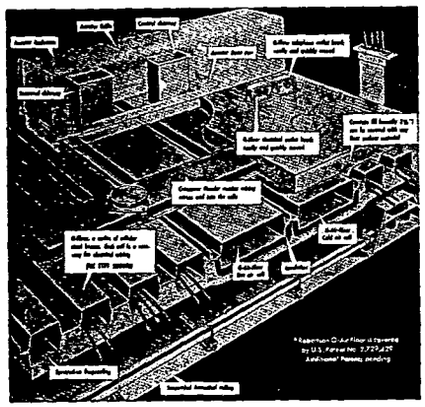
H. H. ROBERTSON COMPANY

2400 Farmers Bank Building **Pittsburgh 22, Pennsylvania**

ROBERTSON Q-AIR FLOOR SYSTEM



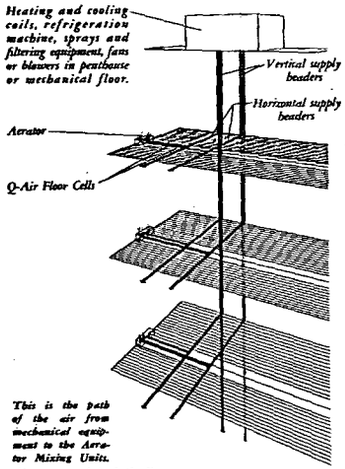
Robertson Q-Air Floor is cellular steel sub-floor construction that incorporates within its thickness structural, load-bearing cells that are available as electrical raceways, plus larger structural cells for use in connection with high velocity, dual duct air conditioning. (See cutaway illustration at left.) These special, load-bearing cells can be adapted by the air-conditioning contractor to transport air from horizontal supply ducts to mixing units for discharge into the room.

In Robertson Q-Air Floor, use of the floor cells for air passages reduces the space between ceiling and floor above. Overall building height can be reduced (without sacrificing ceiling height) by running the secondary supply headers through the web of the horizontal beams instead of below them. Great savings in power consumption, too, are a result because of the reduced cubage of the building. Except for peak summer cooling periods, Robertson's SEASONAL CHANGEOVER feature keeps the power requirements at about 65 percent of top consumption.

As with conventional dual duct systems, Q-Air Floor requires a central plant and a return air system.

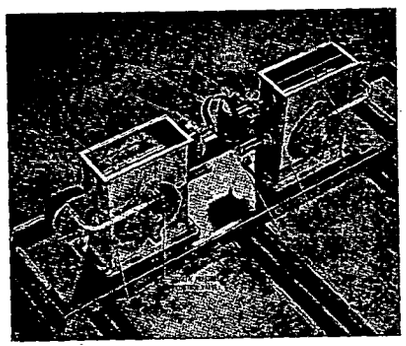
Except for the change in width of occasional cells, Robertson Q-Air Floor is similar to standard Q-Floor—a product having the experience of 27 years and more than 15,000 installations behind it. Cell depth is the same and the 12-in. unit width of the large cell fits into the 6-in. Q-Floor module. Employment of cells to carry air is simply another use added to the widely accepted Q-Floor principle of using cellular steel units for load-bearing and electrical distribution.

The unique Robertson Aerator—shown below—is an ingenious piece of apparatus. In addition to its normal function as a mixing box, in which air from the hot and cold sides of the system is mixed in response to the setting of a thermostat, it also makes possible the conversion of the hot side for supplemental cooling use during the hot months of the year. This "seasonal changeover" device is the heart of Robertson Q-Air Floor and no other system has it.*



This is the path of the air from mechanical equipment to the Aerator Mixing Units.

Air can travel in both directions in Air Cells. One direction is shown here for simplicity.



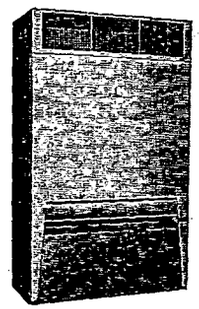
UNITED STATES AIR CONDITIONING CORPORATION

DELAWARE, OHIO

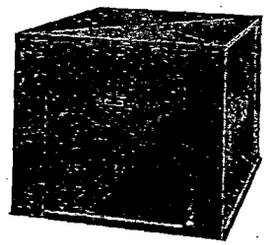
usAIRco

AIR CONDITIONING, HEATING & VENTILATING EQUIPMENT

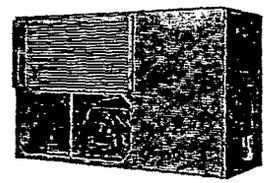
Sales Representatives in all principal cities



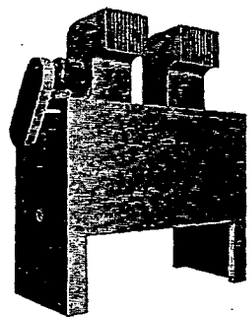
SELF CONTAINED—water cooled —3 to 20 tons capacity
Bulletin 77



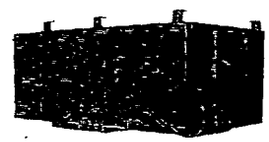
AIR-COOLED KOOLER-AIRE—Condensing Assemblies—remote and Packaged Systems—3 to 20 hp
Bulletin 83 & 72



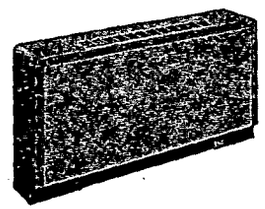
RK REFRIGERATED KOOLER-AIRE With Built-in evaporative condenser or RKW—water-cooled —10 to 60 tons
Bulletin 93–94



BH BLOWER HEATER Commercial & Industrial. Sectional Construction. Heating, Filtering, Humidifying Ventilation. Available with blast coils—Steam distributing coils etc.
Bulletin 73



BC UNIT AIR CONDITIONER Sectional Construction. Cooling, Heating, Filtering, Humidifying, Dehumidifying, Ventilation Vertical or Horizontal air flow—wide variety of arrangements.
Bulletin 74



MODU-AIRE—Room Air Conditioner—Heats, Cools, Ventilates—200 to 1500 cfm. Hotels, Motels, Apartments, offices, schools, etc.
Bulletin 96

PACKAGED WATER CHILLERS: ICW MODELS—10 to 150 tons for air conditioning. Industrial and commercial application—*Bulletin 91.*
PACKAGED WATER CHILLERS: ICA MODELS—10 to 60 tons with built-in evaporative condensers, commercial and industrial applications —*Bulletin 92.*
DX COILS, WATER COILS, STEAM DISTRIBUTING COILS & AIR COOLED CONDENSER COILS: *Bulletins 64, 65, 66, 67 and 84.*