

THE TRANE COMPANY

LA CROSSE, WISCONSIN

TRANE

manufacturing engineers
of air conditioning,
heating, ventilating, and
heat transfer equipment

ALBANY, N. Y.
ALBUQUERQUE, N. M.
ALICANTO, PA.
APLETON, WIS.
ATLANTA, GA.
AUBURN, ILL.
BALTIMORE, MD.
BANDS, IOWA
BETHLEHEM, PA.
BILLINGS, MONT.
BIRMINGHAM, ALA.
BOSTON, MASS.
BUFFALO, N. Y.
CANTON, OHIO
CHARLESTON, W. VA.
CHARLOTTE, N. C.
CHATTANOOGA, TENN.

CHICAGO, ILL.
CINCINNATI, OHIO
CLEVELAND, OHIO
COLUMBIA, S. C.
COLUMBUS, OHIO
DALLAS, TEXAS
DAYTON, OHIO
DENVER, COLO.
DES MOINES, IOWA
DETROIT, MICH.
DULUTH, MINN.
ELMSFORD, N. Y.
FARGO, N. D.
FLINT, MICH.

FORT WAYNE, IND.
GAINESVILLE, FLA.
GRAND RAPIDS, MICH.
GREENSBORO, N. C.
GREENSBORO, S. C.
HARRISBURG, PA.
HOUSTON, TEXAS
INDIANAPOLIS, IND.
JACKSON, MISS.
JOHNSON CITY, TENN.
KANSAS CITY, MO.
KNOXVILLE, TENN.
LA CROSSE, WIS.
LANSING, MICH.
LITTLE ROCK, ARK.
LOS ANGELES, CALIF.
LOUISVILLE, KY.

LUBBOCK, TEXAS
MADISON, WIS.
MEMPHIS, TENN.
MIAMI, FLA.
MILWAUKEE, WIS.
MOOREHEAD, N. Y.
NASHVILLE, TENN.
NEWARK, N. J.
NEW ORLEANS, LA.
NEW YORK, N. Y.
OKLAHOMA CITY, OKLA.
OMAHA, NEBR.
OKLAHOMA, OKLA.
PENSACOLA, FLA.
PEORIA, ILL.
PHILADELPHIA, PA.
PHOENIX, ARIZ.

PITTSBURGH, PA.
PORTLAND, ME.
PORTLAND, ORE.
PROVIDENCE, R. I.
RALLIUM, N. C.
RENO, NEV.
RICHMOND, VA.
ROANOKE, VA.
ROCHESTER, N. Y.
ST. LOUIS, MO.
ST. PAUL, MINN.
SACRAMENTO, CALIF.
SAGINAW, MICH.
SALT LAKE CITY, UTAH
SAN ANTONIO, TEXAS
SAN DIEGO, CALIF.
SAN FRANCISCO, CALIF.

SAVANNAH, GA.
SEATTLE, WASH.
SHERBORN, MA.
SIOUX FALLS, S. D.
SOUTH BEND, IND.
SPRINGFIELD, ILL.
TAMPA, FLA.
TOLSON, ILL.
TULSA, OKLA.
WASHINGTON, D. C.
WEST HARTFORD, CONN.
WICHITA, KANS.
WILKES-BARRE, PA.
WILMINGTON, DEL.
WORCESTER, MASS.

100 TRANE SALES OFFICES IN UNITED STATES

REFRIGERATION

1. HERMETIC CENTRAVACS

Hermetic centrifugal refrigeration unit—a complete water-chilling system. CentraVac features automatic capacity control. No seals or gears. Capacities range from 45-1000 tons. 32 sizes. Unit performs efficiently at operating levels down to 10 percent of rated capacity. Open-type compressor model for any type of drive.

2. TURBINE CENTRAVACS

Centrifugal water chillers combining CentraVac compressor design and steam turbine drive. Integral assembly of compressor and turbine eliminates critical field alignment problems. Sizes from 200 to 1600 tons.

3. ABSORPTION COLD GENERATORS

First fully hermetic absorption type water chillers. Operate at conditions which avoid crystallization. A unit tends to free itself of any crystallization which could occur through power interruption or other temporarily abnormal conditions. Design provides maximum efficiency at operating levels down to 10 percent of rated capacity, economical operation.

4. HERMETIC RECIPROCATING COMPRESSORS

Designed for R-22 and R-12. Single-housing construction—motor and compressor are in one shell with a bolted end cover for easy access. Internal thermal protector is located in motor windings to protect against any condition that causes high motor temperatures. Multi-step capacity control reduces starting, stopping, saves power. Available in capacities from 10 to 100 tons.

Open Reciprocating Compressor fabricated in two cylinder sizes in 4, 5, 6 and 8 cylinder units. Single or duplex direct drive arrangements with capacities from 10 to 150 tons. Designed for R-22 and R-12.

5. HERMETIC RECIPROCATING COLD GENERATORS

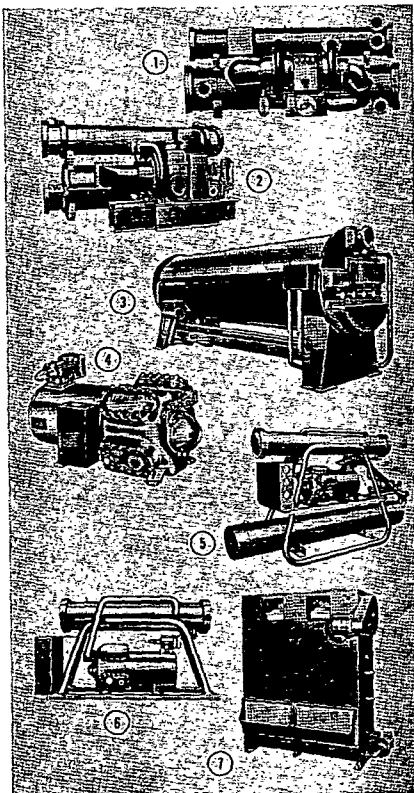
Major components—hermetic compressor, chiller and condenser with built-in sub-cooler—designed and manufactured by Trane. All Cold Generators small enough to pass through standard 36" wide commercial door. Available with either pneumatic or electric controls. Factory-wired control panels mounted on unit, eliminate on-the-job wiring. Available with capacities ranging from 10 to 100 tons; using R-22 and R-12.

6. CONDENSING UNITS

Hermetic or Open Trane Reciprocating Compressors complete with water-cooled condensers. Capacities 10 to 100 tons; R-22 and R-12.

7-8. CONDENSERS

Evaporative condensers for installations in localities where the use of water for condensing the refrigerant in the air conditioning system is restricted, or where disposal of large quantities of water is a problem. Units condense R-12 and R-22 by the evaporative process using a constantly recirculated supply of water. Only water lost is that which is evaporated to cool the water being circulated. Sizes from 15 to 100 tons.



The Trane Company

Air-cooled refrigerant condensers are designed primarily to condense refrigerants used in packaged air conditioning systems. Require no water. Instead employ ambient air as the cooling medium. Sizes from 10 to 50 tons. Fourteen models—1 and 2 fan units—available. Installation of multiple units possible.

9-10. SELF-CONTAINED CLIMATE CHANGERS

Packaged air conditioning units for offices, shops, commercial or industrial air conditioning. Available in sizes from 3 to 50 tons. The 3, 5, 7, 10- and 15-ton sizes have de luxe cabinet design to be installed in the conditioned space and blend with any surrounding. The commercial units available in 10-, 15-, 20-, 30-, 40- and 50-ton sizes are usually installed in a remote location, outside the conditioned area. De luxe units available with water- or remote air-cooled condenser. 10-, 15- and 20-ton commercial units available with integral evaporative condenser; 20-, 25-, 30-, 40- and 50-ton sizes with either water-cooled or air-cooled condenser.

11. RESIDENTIAL CLIMATE CHANGERS

Heat, cool—or both—with this year-round unit. Cooling unit (top section) may be added later. 2-, 3-, 4- and 5-ton sizes. Heating unit (lower section) comes in complete range of sizes from 77,000 to 154,000 Btu, gas-fired, upflow, downflow and horizontal models. A.G.A. approved. Also 84,000 to 154,000 Btu output oil-fired models, upflow, downflow and horizontal. Residential Climate Changer Bonnet Cooling Unit fits atop Trane heating unit—or other modern makes. Compact 2-, 3-, 4- or 5-ton capacity cooling coil.

Residential Climate Changer Fan-Coil Unit for cooling with independent heating system. Unit, with own quiet centrifugal fan, distributes cooled, dehumidified air. Built-in filter cleans air of dust and dirt. Fits anywhere. 2-, 3-, 4-, 5- and 7-ton sizes. Residential Climate Changer Duct-Cooling Unit for special applications. Complete range of sizes—2, 3, 4, 5 and 7 tons.

12-13-14. UNITRANE

UnitTrane room air conditioners heat, ventilate, filter and circulate air in the winter. In summer, they cool, ventilate, filter, control moisture content and circulate air. Available in both fan-coil and induction types. Wide range of sizes and models—free-standing, recessed, semi-recessed, ceiling-suspended—for exposed or concealed installation. Capacities for 100 to 600 cfm delivery.

Trane wall-to-wall shelving designed to be installed with individual room UnitTrane air conditioning units. To house unit, cover piping installed above floor, provide storage areas for books, ledgers, files, etc. Factory assembled, easy to install.

Automatic Air Flow Regulator provides permanent balancing for Trane high pressure induction air conditioning systems. Acts automatically to assure proper air delivery and performance. Factory-installed for either left-hand or right-hand air supply. System is balanced in a single initial operation; requires no periodic rebalancing thereafter.

15. WALL-LINE UNITRANE

Engineered to provide a curtain of moving air around entire perimeter of a multi-room building. Wall-Line sets up a barrier against exterior heat loss or gain. Provides draft-free conditioning. Year-round air conditioning system engineered specifically to meet changes in space and tenant requirements, without changing or altering perimeter air conditioning equipment.

16-17. CLIMATE CHANGERS

Any or all phases of air conditioning available in one unit. Draw-through and Multi-Zone, low and medium pressure units. 14 sizes, from 3 to 63 sq. ft. coil area. Capacities from 1,200 to 47,000 cfm. Climate Changer mixing box design eliminates stratification. Have opposed blade face dampers for better control. One-inch O.D. tube coil of non-freeze design. Completely drainable coils available. Sigma-Flo Fin design for increased efficiency. Multi-Zone units provide independent and variable control for up to 14 zones. Damper section permits maximum flexibility in zone selection. Coils located to minimize wiping.

EDUCATIONAL MATERIAL

"Trane Air Conditioning Manual" (\$6.50), an unbiased 380-page textbook for the engineering profession. Many tables and charts included for making computations. In general, text covers heat gains, psychrometry, calculations for the conditioned air supply, refrigeration for air conditioning, water for air conditioning, and ducts and fans.

"Trane Refrigeration Manual," a reference for servicing and installing all types of refrigeration systems. Also available from The Trane Company, La Crosse, Wis. Price \$2.50.

