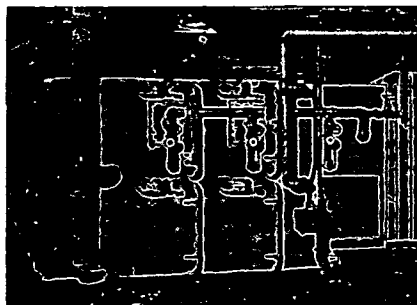


Research Corporation

405 Lexington Avenue, New York City

RESEARCH SYSTEM OF AIR CONDITIONING

(PATENTED AND PATENTS PENDING)



The Research Corporation System of Air Conditioning features a direct method of chemical dehumidification, and may be applied to either comfort control or industrial processing. It functions either with or without the use of refrigeration, depending upon operating conditions.

In the working unit, or Calorider, a moisture-absorbing salt solution is sprayed over copper extended surface coils through which cooling water circulates.

This salt solution is automatically kept at a definite concentration by heat supplied at relatively low temperatures (e.g., by waste steam).

The system makes possible the independent and yet simultaneous control of temperature and humidity over a wide range, at extremely low operating cost.

Advantages of Research Corporation System of Air Conditioning

1. Installation costs are moderate, operating costs are cut 50 to 80 per cent.
2. Cooling water at 70 deg gives conditioned air with dew-point as low as 22 deg.
3. Maintenance is simple, cheap and infrequent. No reciprocating machinery, no gas to leak. The only moving parts are fans, pumps and their motors.
4. Noise and vibration limited to that of main air supply blower.
5. Fully automatic control, all year 'round if desired; relative humidity may be held ± 3 per cent at any point between 15 and 50 per cent.
6. Equipment available in sizes of 1000, 3000, 6000, 9000, 12000 and 18000 cfm.

COEY MULTISTAGE COOLING TOWERS

(PATENTED AND PATENTS PENDING)

"Water Saved is Money Earned"

The Coey Multistage Cooling Tower is constructed of a copper-bearing steel shell and corrosion resisting supporting members, Red Gulf Cypress wood baffles, a non-overloading reverse blade centrifugal fan rotor, and the Coey Spray Eliminator of copper-bearing steel or aluminum.

Table of Capacities and Sizes

Model No.	Nominal Water Flow Gpm	Motor Hp	Height above beams*	Diam	Operating Wgt Pounds	Mech. Refrig. Tons	Steam Wgt Refrig. Tons	Steam Condensing 1.27 in. Vac. 115 F. Lb per hour
10 or 10-A	100	2.0	9'-0"	5'-0"	4500	35	15	1,125
20-R	225	5.0	11'-5"	8'-5"	9000	75	35	2,500
35 or 35-R	375	7.5	14'-2"	11'-3"	15500	125	60	4,200
50 or 50-R	550	10.0	16'-9"	13'-3"	21500	185	90	6,200
85 or 85-R	850	15.0	18'-8"	15'-0"	30000	235	135	9,550
110 or 110-R	1100	20.0	21'-7"	17'-9"	43000	375	175	12,400
150 or 150-R	1400	25.0	22'-10"	20'-0"	56000	465	230	15,700

Complete information on Research Corporation products gladly sent upon request.

Other Equipment: Cottrell Electrical Precipitation Systems—Multiclone Dust Collectors—Impax Separators—Cottrell Royster Deodorizers—Royster Stoves for High Temperature Heat Exchange.

Servel, Inc.

Electric Refrigeration and Air Conditioning Division

Evansville, Indiana

AIR CONDITIONING

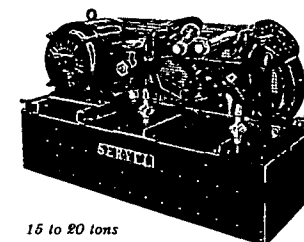
Servel specializes in the manufacture of refrigerating machines for the air conditioning industry. Eliminating side lines and accessories, Servel concentrates its engineering and manufacturing facilities on this one all-important element in every complete system. Backed by 17 years of experience in building heavy-duty low-pressure refrigerating machines, Servel units offer every modern feature, plus a record of proven dependability.

SERVEL'S NEW PRODUCTS FOR 1939

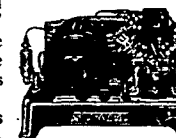
Servel offers a fully integrated line of machine units, designed as a "family." This line is the result of a research program inaugurated early in 1935. Since that time, dozens of new materials, design features, manufacturing processes and practical selling advantages have been developed. All units have been moulded to the modern trend. While special stress has been placed on quiet operation and compactness, there has been no sacrifice of high capacity and overall efficiency.

Remote Machines—For conventional central fan systems or room coolers, Servel offers over twenty models, ranging from $\frac{1}{2}$ ton to 20 tons and including air-cooled, water-cooled and evaporative condenser types. Air-cooled models feature shrouded condensers with leaf-type "Streamair" fans. The larger water-cooled units have the economical counter-flow shell and tube condensers developed by Servel two-years ago.

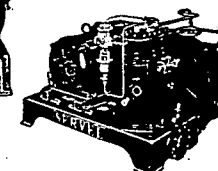
Machines for Self-Contained Units—For manufacturers or assemblers of self-contained conditioners, Servel offers compact assemblies of compressors, condensers and auxiliaries suited to this type of work from $\frac{1}{2}$ ton to 10 tons.



15 to 20 tons



$\frac{3}{4}$ ton



4 to 7 tons

COMPRESSORS

Servel offers nine distinct compressors for use with units of $\frac{1}{2}$ ton to 20 tons capacity. All except the smallest are four or eight-cylinder compressors, insuring absolute balance and freedom from vibration. Manufacturers will find these compressors adaptable to almost any assembly program. Servel's engineers will be glad to supply technical data, specifications and other details to responsible firms.



Typical Compressor

EVAPORATIVE CONDENSERS

For sections of the country where water rates are high, or where there is a shortage of water supply or sewage facilities, Servel offers five economical evaporative condensers. Ranging in size from 5 tons to 20 tons, these evaporative condensers are shipped complete, including coil, blower, pump, receiver, eliminator, by-pass connection, motors, drives and control. Each model is designed to handle full capacity, with condensing temperature within 25 F of entering wet-bulb.

