answer to every laboratory filing need

*1" MICROSLIDE DRAWERS
(for spaced or storage filing)

*2" SLIDE OR TRANSPARENCY DRAWERS
(for spaced or storage filing)

*4" DRAWERS
(for 3¼" x 4¼" slides or index cards. Technilume drawer for built-in illumination optional)

SHELF
(for resting trays or drawers in use)

FLAT-FILING CABINET FOR MICROSLIDES
(slides lie flat in trays; dry quickly; are visible at a glance)

FLAT-FILING UNIT FOR TRANSPARENCIES
(2" x 2" or 3¼" x 4¼" for filing and instant viewing)

ILLUMINATION UNIT
(used in conjunction with Transparency Flat-Filing for viewing)

PARAFFIN BLOCK FILE
(shallow drawers, with vari-sized knock-down cardboard containers)

*Single cabinets can comprise variable assemblies of any of these drawers, thanks to the Technicon Lab-aid unit track design.

In a single stack of Technicon Lab-aid cabinets you could, if you wished, concentrate all these various facilities. Or add to them, change them about, even interchange the drawers in a single unit.

Technicon Lab-aid filing system

engineered for efficiency . . . . . organized for economy

Every cubic inch of a Technicon Lab-aid filing unit is a live filing inch, without waste space for struts, dividers and the like. For instance, a single unit of 1" microslide drawers, used for close-packed storage filing, will accommodate approximately 6500 slides . . . a gain of up to 45% in capacity.

You can use a compact Lab-aid cabinet on your desk (it's only 19" square) or stack them to any height. Staunch welded-steel construction includes interlocking angles for stability and weight-supporting strength.

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Biochemical Instruments

ELECTROPHORESIS APPARATUS

The large Aminco-Stern research model (left) is intended for heavy work output, using a large variety of sample volumes. The Aminco Portable Apparatus (right) is designed for routine research and clinical use on a smaller scale. Both models constitute complete electrophoresis laboratories in single, compact units. They combine precise schlieren optics, automatic refrigeration, high-voltage supply, and rapid dialysis facilities. Accessories available for macro-preparative work, adsorption chromatography, diffusion measurements, and routine clinical analysis.

BULLETINS 2175 and 2281

WARBURG MANOMETRIC APPARATUS

These greatly improved instruments represent the latest developments in manometric apparatus. The Aminco-Lardy Rotary Warburg Unit (left) can be rotated so that any manometer can be brought before the operator while he remains in a fixed position. Manometers may be read while in motion, or stopped individually. The Dual-shaker Apparatus (right) embodies two independent shaking mechanisms. Both types have wobble-free manometers, and are available in heated and refrigerated models.

BULLETIN 2185

LIGHT-SCATTERING APPARATUS

This compact and sensitive indicating and recording microphotometer directly measures from 20 micro-microlumens to 20 lumens of scattered light in four decade ranges. It has internal electronic stabilization, built-in d-c. amplifier, removable slit and optical systems, and outlet for recorder operation. Completely a-c. operated.

BULLETIN 2182

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BULLETIN 150

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May 23, 1952
What GENERAL ELECTRIC People Are Saying

J. P. DITCHMAN
Lamp Division

INFRARED BROODING: Radiation, applied through the use of lamps to problems of the farm, is on the threshold of great things. Recent announcements in other fields of science add new dimensions to the service radiation will be called on to supply. Thus, new chemicals which promise to save vast acreage for cultivation, and techniques for producing larger food animals in shorter time by use of antibiotics in the diet, are examples of what I have in mind. The implications in these announcements are tremendous. When we consider them in connection with the prospects for using radiation in the control and timing of growth processes, the problem of food supply must be reconsidered. Last year, with 3,000,000 infrared lamps applied to animal brooding purposes, history was made. Impressive as the figure is, however, its significance is for the implications of things to come. As we improve our techniques of applying radiation to the control of plant and animal growth, the variety and number of lamps required make us hesitant to speculate. But against the darker portents of the times, this offers a bright contrast. Wherever hunger threatens peace, we now have some wonderfully promising new antidotes.

Public Service Company and Vocational Teachers
Chicago, Illinois
February 13, 1952

M. A. EDWARDS
General Engineering Laboratory

SERVO MECHANISMS IN THE POWER INDUSTRY: Today the average worker has available for his use more than four times as much power as he had thirty years ago, and twice as much as the average worker in any other comparable country. Through the use of power and power operated machinery we have reached an unprecedented level of productivity.

But, with the increased use of power have come complex problems of control—particu-
larly automatic control. There would be little advantage in having more power available if all of the workers that would be saved in a particular operation were required to control the power used in this operation. We have advanced steadily in the art of control. We have developed a wide variety of automatic and semi-automatic control systems. But we have only scratched the surface in this field.

The magnetic amplifier or amplistat was developed in elementary form as early as 1916 when General Electric's Dr. E. F. W. Alexander brought out his 50 KW high-frequency alternator for transoceanic radio telephone. Here the problem was to maintain constant the speed and hence frequency of the alternator regardless of the demand placed upon it. Alexander developed a magnetic amplifier for his control system and obtained a patent for his design. It had a gain of approximately 400 to 1. This was the first commercial application of magnetic amplifiers in the United States.

The servo amplifier must be a faithful servant that requires little or no maintenance and will stand ready to perform its task at all times. This is particularly true in the power industry where uninterrupted service must be maintained and failure in service results in large operating losses. The amplistat is a servo amplifier that meets these requirements.

Because the amplistat meets all the requirements of a satisfactory industrial servo amplifier it is being used to perform a wide variety of control functions. The task of opening and closing remotely located valves, regulate the speed of motors or the voltage and current of generators are typical examples.

It is evident that a new tool of great usefulness has been made available. It is simple, sturdy and versatile. Together with electronic and amplidyne amplifiers it is performing a vital function in power control.

American Power Conference
Chicago, Illinois
March 27, 1952

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