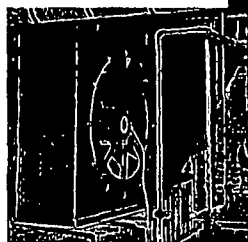


Announcing
The WING Package
DRAFT INDUCER
FOR POWER PLANTS

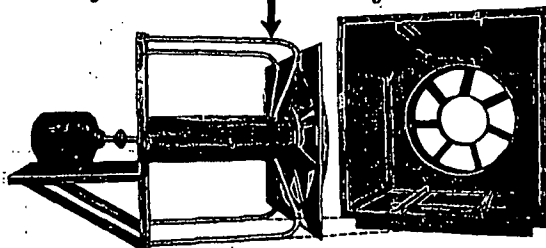


Motor (or Turbine) and Fan in one complete removable unit

In this new high-pressure "Package" Draft Inducer, the motor (or turbine) and fan unit, completely independent of the casing, makes installation considerably easier, and being easily removed, facilitates inspection and maintenance.

ADVANTAGES

1. Big saving in space requirements
2. Compactness permits fewer and lighter structural supports
3. Eliminates field line-up problems
4. Eliminates water cooling
5. Only two supporting bearings
6. Wide flexibility in gas inlets
7. All moving parts quickly and easily accessible
8. Saves on investment and maintenance
9. Low load ratings on natural draft because of Wingfoil Fan and ample free gas travel area



Wing Package Draft Inducers are available in many sizes with either turbine or electric motor drive. For further information write

Wing

L. J. Wing Mfg. Co.
50 Vreeland Mills Road,
Linden, New Jersey.

FACTORIES: Linden, N.J. and Montreal, Can.



PROPORTIONING PUMP

Continued from page

driving crank K. Crankpin C is in block movable by a screw in slot. In position shown, pin C is at outer end of crank, giving plunger P maximum stroke and the pump maximum discharge. If crankpin is moved down until it centers on drive shaft, its throw is zero, as is pump discharge. So positioning the crankpin, pump discharge is adjustable over its full range. Most pumps of this type have a set on crank to show capacity at different crankpin settings.

This pump has double-ball suction and discharge valves. Should solid matter lodge under one ball, chances are good the other will hold and give positive valve action. Pump must be stopped before discharge is adjusted. For many applications, flow need not be changed often once it is set.

Rhodesia Plans 2-Stage Hydro Development

Northern Rhodesia will build a 6 million hydroelectric development on the Kafue Gorge.

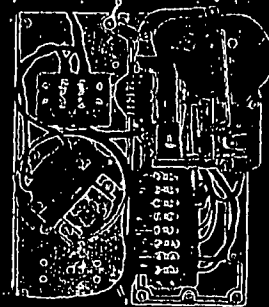
Tapping vast copper and other mineral wealth in Northern and Southern Rhodesia requires an immediate start on this important hydro project, the first of two proposed during the next twenty years. The gorge is on the Kafue River near its exit into the Zambezi about 350 miles below world-famous Victoria Falls.

A diversion dam 600 ft long and 10 ft high will be thrown across the Kafue Gorge to form a reservoir. From there two 13.5-mile tunnels having a total flow of 2500 cfs will drop to a 500,000-hp powerhouse developing a 1900 ft head. The project will require transporting nearly 250,000 tons of material and equipment to a site difficult to reach and will take nearly 7 years to complete.

The Kariba Gorge, on the Zambezi River about 50 miles from the Kafue site, can develop 1,500,000 hp plus large storage capacity. This project is estimated to cost \$210 million and will include fourteen 115,000 hp units. The two projects, when completed, will insure ample cheap power to Northern and Southern Rhodesia industries for many years to come.

Bonneville Dam powerhouse on the Columbia River established a new production record during March with generators turning out 424,547,000 kw-h in 31 days. At average hourly output was 570,628 kw. The 10 generators have nameplate rating of 518,000 kw and maximum load capacity is 574,000 kw.

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unaffected by normal
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3 to 1 range calibration
at recorder

HAYS Electronic Flow Meter

Since the circuit is of the electronic null-balance type, it is unaffected by normal voltage and frequency variations. Also, neither temperature variations nor reasonable length of transmission lines affect the calibration of the instrument.

The pen-drive motor is built for reversing duty. Normal variations in voltage and frequency have no noticeable effect on its operation.

The integrator is continuous in operation and simple in mechanical construction. A micrometer zero adjustment for calibration is easily accessible.

Indicators can be calibrated to read directly in rate-of-flow or other factors as desired.

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