Steam + CORAVOL = Protection (FROM CORROSION)

(The Original* AMINE PROCESS) ®

Because CORAVOL Circulates to Control Corrosion

CORAVOL circulating throughout your steam system protects it from corrosive attack. **CORAVOL** saves costly pipe repairs and replacements—maintenance labor—hours and days of shutdown loss. **CORAVOL** cleans out clogging rust deposits, improving heat transfer, restoring original capacity of lines and efficiency of valves and traps.

CORAVOL, the original* amine process, has the flexibility that lets it conform to each individual need. The **CORAVOL** you will use is formulated to do the best protective job under your own plant conditions.

CORAVOL IS PART OF A COMPLETE TECHNICAL SERVICE which provides special chemical formulas for: boiler feed water . . . foam prevention . . . hot water supply . . . refrigerating brine . . . cooling and condenser water . . . rapid scale removal . . . coagulation . . . algae control . . . fuel oil supply . . . soot removal.

*The use of **CORAVOL** in steam systems is covered by U. S. Patent No. 2053024. The Western Chemical Co., owner of this patent, grants licenses under which volatile AMINES purchased from other sources may be used in steam systems upon payment of royalty to Western Chemical Co.

Chemical Water Treatment

WESTERN CHEMICAL COMPANY

713 Washington Street
Kansas City 6, Missouri

MAIL COUPON TODAY for
Complete Data about the CORAVOL Process

Western Chemical Company,
713 Washington Street,
Kansas City 6, Missouri

Send me full information about CORAVOL.

NAME _____

FIRM _____

ADDRESS _____

CITY _____ ZONE ____

STATE _____

More TECHNICAL BRIEFS

Begins on page

less there is on overall advantage
the purchaser the drive should not
packaged.

2. Engineering design costs tend to
higher on complex packaged drives th
on non-packaged equipment.

3. Drive designers must not be ha
dicapped by the purchaser insisting
a specific solution to a problem merely
to follow tradition or a personal pr
erence. *AIEE conference paper. C
be obtained from the author.*

Directions for ordering papers on p 154

Packaged Adjustable Voltage Drive

*By S P Finnegan, W H Turner, Jr, Ge
eral Electric Co, Schenectady, N. Y
and L Wolfson, General Electric C
Lynn, Mass.*

Adjustable-voltage drives in whic
the adjustable-voltage source is a
generator, the shunt field strength
which is varied, are covered. The pri
cipal advantage of these drives are:

1. Wide speed range below base
armature control at constant torqu
This range can be extended above ba
speed by shunt-field control at constan
horsepower.

2. Low, threading or jogging speed
can be obtained easily.

3. Torque at starting, during acceler
tion, retardation and dynamic braki
can be easily and accurately controlled.

4. Direction of machine-drive mot
can be reversed by reversing generato
armature or shunt-field connections.

5. Since speed is controlled by adjus
ing generator field current, accurat
speed, current and current-limit reg
lators can be included in the contro
circuit.

6. Several motors operating in tan
dem may be connected to one gener
tor. Adjusting the generator voltag
adjusts the speed of all motors simul
taneously. Speed of each motor may
also be adjusted by motor-field rhe
stat.

Preference for packaged equipment
has increased because:

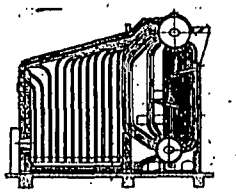
1. It is easy for the customer to orde
the equipment. He can think in term
of what he wishes to accomplish, and
then gets a packaged unit to do this job.

2. Factory assembled equipment
greatly reduces installation costs.

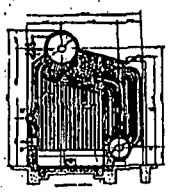
3. Packaged units are more compact
and require less space than non-packa
aged equipment to do the same job.

4. The package manufacturer take
complete responsibility for the equip
ment's operation. *AIEE conference
paper. Can be obtained from the au
thors.*

(Continued on page 208)



2 Drum Water Tube Boiler



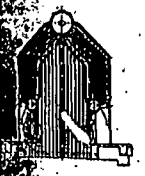
Type-S 2 Drum Boiler Series S1

FOR ALL INDUSTRY . . .

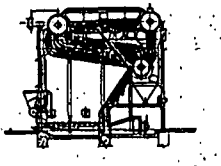
WICKES

STEAM GENERATORS

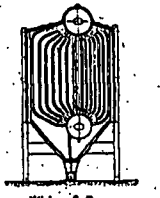
• In the oil, paper and chemical industries and in manufacturing plants, institutions and public buildings throughout the world Wickes Steam Generators are in constant daily service. All types, such as those illustrated on this page, with capacities to 250,000 lbs. steam per hour and 1000 psi. Write for descriptive literature.



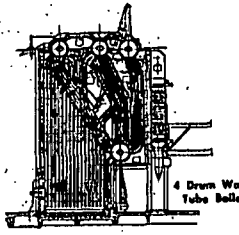
Type Water Tube Boiler



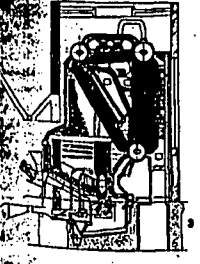
3 Drum Low Head Water Tube Boiler



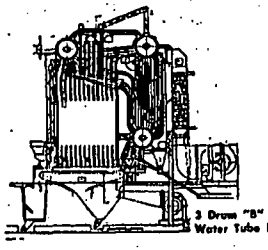
Wickes 3 Drum Waste Heat Installation



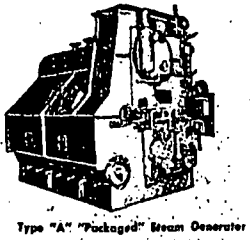
4 Drum Water Tube Boiler



3 Drum Water Tube Boiler



3 Drum "B" Type Water Tube Boiler



Type "A" "Packaged" Steam Generator

THE WICKES BOILER COMPANY • DIVISION OF THE WICKES CORPORATION, SAGINAW, MICHIGAN

RECOGNIZED QUALITY SINCE 1854 • SALES OFFICES: Atlanta • Boston • Buffalo • Chicago • Cincinnati • Cleveland • Denver • Greensboro, N.C. • Houston • Indianapolis • Los Angeles • Memphis • Milwaukee • New York City • Pittsburgh • Portland, Ore. • Saginaw • San Francisco • Springfield, Ill. • Tampa, Fla. • Tulsa • Washington, D.C.