IGNITRON
SIZE C

DATA

General:
Peak Voltage Drop. .......................... 12 volts
Cooling:
Type ........................................ Water
Minimum Flow ............................... 1.5 gal./min.
Pressure Drop per tube, at Minimum Flow. 4.5 lb./sq.in.
Maximum Outlet Water Temperature .......... 40°C
Minimum Outlet Water Temperature .......... 10°C
Temp. Rise at Min. Flow (Average
Current 100 amp/anode) Approx. ............. 3°C
Mounting Position ............................. Vertical, Flexible Lead Up
Maximum Rigid Length (Approx.) .............. 14-1/2"
Maximum Diameter, Including Cooling Connections... 7-1/4"
Terminal Connections:
I — Ignitor
K — Cathode
P — Anode

AC WELDER-CONTROL SERVICE®

Ratings are for any voltage from 250 to 600 volts rms
at frequencies from 25 to 60 cycles per second

Maximum Ratings, Absolute Values:

Demand ........................................ 1200 max. kva
Average Anode Current at Maximum Demand. 75.6 max. amp

Anode Current:
Average* ..................................... 140 max. amp
Demand at Max. Average Anode Current .... 400 max. kva
Fault:
At 600 volts rms ............................. 5600 max. amp
At 250 volts rms ............................. 13450 max. amp

Peak Ignitor Voltage:
Positive$ ....................................... 900 max. volts
Negative ........................................ 200 min. volts

Ignitor Current:
Peak$ ........................................... 100 max. amp
Average** ...................................... 30 min. amp
Average** ...................................... 1 max. amp
Ignitor Ignition Time$ .......................... 100 max. μsec

* RMS demand-voltage, -current, and -kva are on the basis of full-cycle
conduction (no phase delay) regardless of whether or not phase-control
is used. Use the 250-volt rating for voltages below 250 volts.
* Averaged over any 5.8-second maximum interval for operation at 600 volts
rms and over any 14-second maximum interval at 250 volts rms.
$ See next page. ** Indicates a change.

MARCH 1, 1951

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY
INTERMITTENT RECTIFIER SERVICE

For frequencies from 25 to 60 cycles per second

Maximum Ratings, Absolute Values:

PEAK ANODE VOLTAGE:
   Forward .................................. 500 max. volts
   Inverse .................................. 500 max. volts

ANODE CURRENT:
   Peak ..................................... 1600 max. amp
   Averaged ................................ 100 max. amp
   Fault, for 0.15 second maximum .......... 6000 max. amp

PEAK IGNITOR VOLTAGE:
   Positive§ ................................ 900 max. volts
   Negative .................................. 200 min. volts
   Ignitor .................................. 5 max. volts

IGNITOR CURRENT:
   Peak§ .................................... 100 max. amp
   Averaged** ................................ 30 min. amp
   Ignitor Ignition Time§, ................. 1 max. amp
   ........................................ 100 max. μsec

§ Ignition will occur if either minimum peak positive ignitor potential
   is applied, or minimum peak ignitor current flows, for the rated
   maximum ignition time.

** Averaged over any 5-second maximum interval.

Averaged over any 6-second maximum interval.

Curves for the 5552 in AC Welder-Control Service
are shown under Type 5550