



5552

IGNITRON

SIZE C

5552

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"

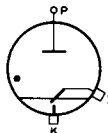
Maximum Diameter, Including Cooling Connections. 7-1/4"

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:

Two Tubes in Inverse Parallel

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

5 max. volts

IGNITOR CURRENT:

Peak§. { 100 max. amp

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

DATA

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

5552



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IGNITRON

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
Average [□]	100 max.	amp
Fault, for 0.15 second maximum.	6000 max.	amp

PEAK IGNITOR VOLTAGE:

Positive [§]	{ 900 max.	volts
	{ 200 min.	volts
Negative.	5 max.	volts

IGNITOR CURRENT:

Peak [§]	{ 100 max.	amp
	{ 30 min.	amp
Average ^{**}	1 max.	amp

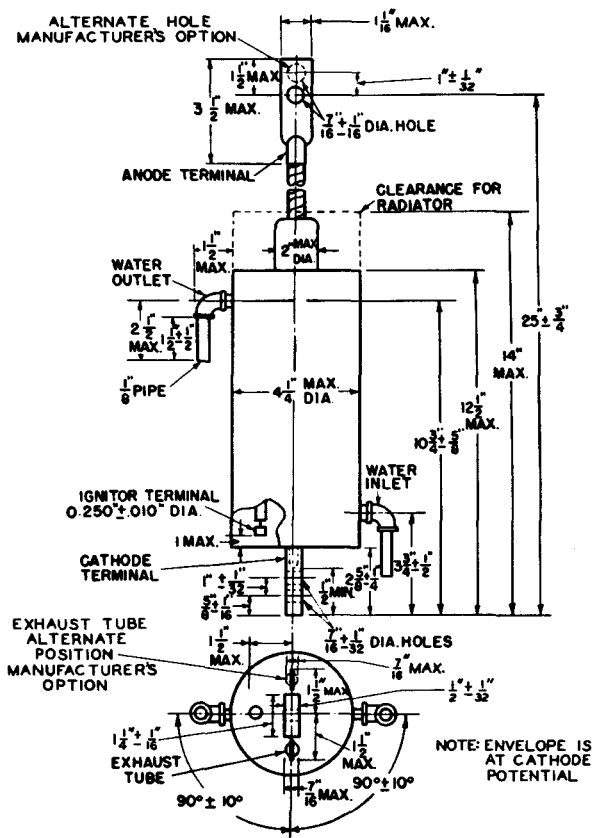
IGNITOR IGNITION TIME [§]	100 max.	μsec
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§ Ignition will occur if either minimum peak positive ignitor potential is applied, or minimum peak ignitor current flows, for the rated maximum ignition time.

** 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*



92CS- 6711RI