



5551

IGNITRON

SIZE B

5551

DATA**General:**

Peak Voltage Drop. 12 volts

Cooling:

Type Water

Minimum Flow 1 gallon/minute

Maximum Outlet Water Temperature 40°C

Minimum Inlet Water Temperature. 10°C

Pressure Drop per tube, at Min. Flow . . . 1.6 lb./sq.in.

Temp. Rise at Minimum Flow (Average
current 40 amp/anode) Approx. 2°C

Mounting Position. Vertical, Flexible Lead Up

Max. Rigid Length (Approx.). 13-1/2"

Max. Diameter, including Cooling Connections . . . 5-3/4"

AC WELDER-CONTROL SERVICE®Ratings are for any voltage from 250 to 600 volts rms
at frequencies from 25 to 60 cycles**Maximum Ratings, Absolute Values:**

DEMAND 600 max. kva

CORRESPONDING AVERAGE ANODE CURRENT. . 30.2 max. amp

AVERAGE ANODE CURRENT. 56 max. amp

CORRESPONDING DEMAND 200 max. kva

TIME OF AVERAGING ANODE CURRENT:

At 500 volts rms 9 max. sec

At 250 volts rms 18 max. sec

SURGE ANODE CURRENT. ■ peak amp

PEAK POSITIVE IGNITOR VOLTAGE § { 900 max. volts
200 min. volts

PEAK NEGATIVE IGNITOR VOLTAGE. 5 max. volts

PEAK IGNITOR CURRENT § { 100 max. amp
30 min. amp

AVERAGE IGNITOR CURRENT* 1 max. amp

IGNITION TIME § 100 max. μsec

**CURVES FOR THE 5551 IN THIS CLASS OF SERVICE
ARE SHOWN UNDER TYPE 5550****INTERMITTENT RECTIFIER SERVICE**For frequencies from 25 to 60 cycles**Maximum Ratings, Absolute Values:**

PEAK FORWARD ANODE VOLTAGE 500 max. volts

PEAK INVERSE ANODE VOLTAGE 500 max. volts

PEAK ANODE CURRENT 700 max. amp

AVERAGE ANODE CURRENT# 40 max. amp

SURGE ANODE CURRENT for 0.15 sec. max. 8000 max. amp

*, ■, §, @, #: See next page.



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PEAK POSITIVE IGNITOR VOLTAGE §	{ 900 max. volts
	{ 200 min. volts
PEAK NEGATIVE IGNITOR VOLTAGE.	5 max. volts
PEAK IGNITOR CURRENT §	{ 100 max. volts
	{ 30 min. volts
AVERAGE IGNITOR CURRENT.	1 max. amp
IGNITION TIME §	100 max. μ sec

* Averaged over any 5-second interval.

Averaged over any 3-second interval.

■ Must be limited to 280% of maximum rms demand current.

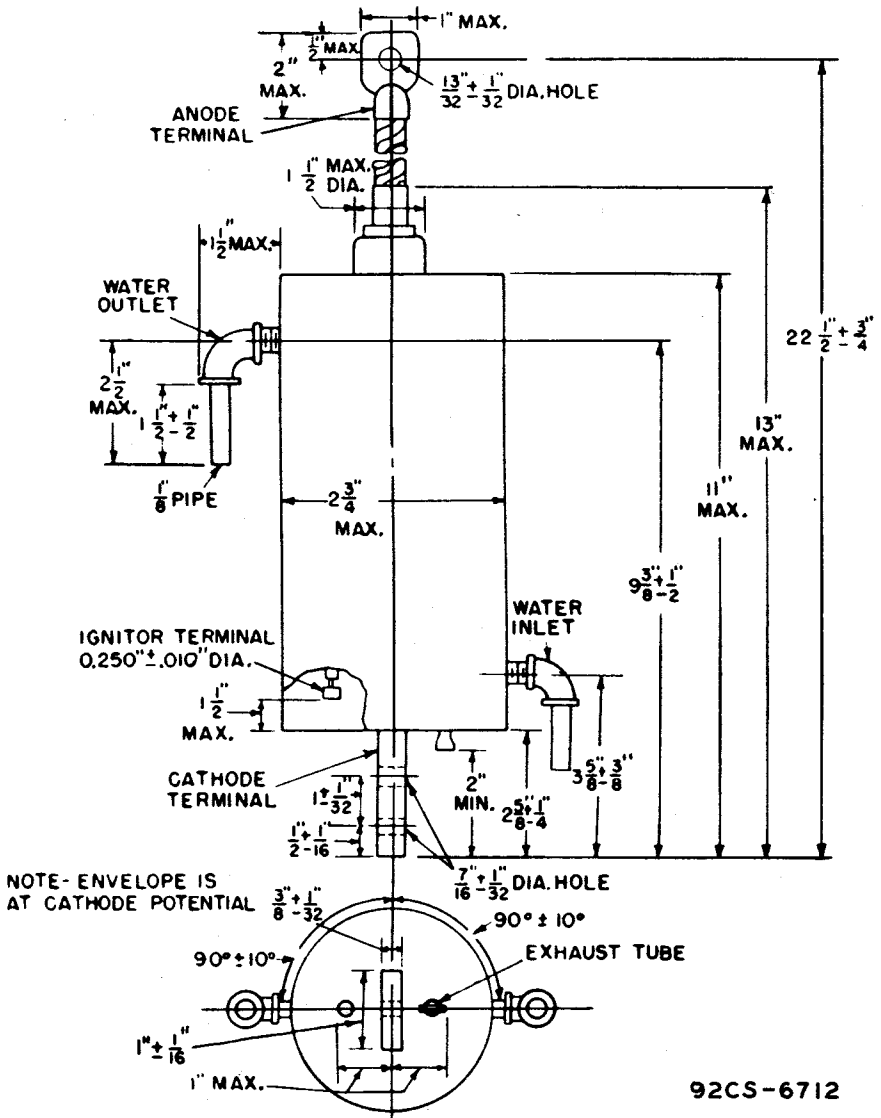
● RMS demand-voltage, -current, and -kva are on the basis of full-cycle conduction (no phase delay) regardless of whether or not phase-control is used. Use the 250-volt rating for voltages below 250 volts.

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

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92CS-6712