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IGNITRON

SIZE D

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DATA**General:**

Peak Voltage Drop. 12 volts

Cooling:

Type Water

Minimum Flow 3 gal./min.

Pressure Drop per tube, at Minimum Flow 5.1 lb./sq. in.

Maximum Outlet Water Temperature 40 °C

Minimum Inlet Water Temperature. 10 °C

Temp. Rise at Min. Flow (Average
current 200 amp/anode), Approx. 5 °C

Mounting Position. Vertical, Flexible Lead Up

Maximum Rigid Length (Approx.) 20"

Maximum Diameter, including Cooling Connections. 9-3/8"

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 2400 max. kva

CORRESPONDING AVERAGE ANODE CUR. 192 max. amp

AVERAGE ANODE CURRENT. 355 max. amp

CORRESPONDING DEMAND 800 max. kva

TIME OF AVERAGING ANODE CURRENT:

At 500 volts RMS 5.6 max. sec

At 250 volts RMS 11 max. sec

SURGE ANODE CURRENT. ■ peak amp

PEAK POSITIVE IGNITOR VOLTAGE § 900 max. volts

200 min. volts

PEAK NEGATIVE IGNITOR VOLTAGE. 5 max. volts

100 max. amp

PEAK IGNITOR CURRENT§ 30 min. amp

AVERAGE IGNITOR CURRENT* 1 max. amp

IGNITION TIME§ 100 max. μsec

CURVES FOR THE 5553 IN THIS CLASS OF SERVICE
ARE SHOWN UNDER TYPE 5550

* Averaged over any 5-second interval.

■ Must be held to 280% of maximum demand rms 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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