5553
IGNITRON
SIZE D

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
PEAK IGNITOR CURRENT §	100 max.	amp
	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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